



TELEPHONE NUMBER:
BANK 852 (two lines).

TELEGRAPHIC ADDRESS:
"CHEMICUS CANNON LONDON."

Registered as a Newspaper.

Published Weekly at 42 CANNON STREET,
LONDON. E.C.

Established in

[AUSTRALASIA, 1885.]

Established in
ENGLAND, 1859.]

No. 1,705. Vol. LXXXI.

SEPTEMBER 28, 1912.

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1887.

1912.

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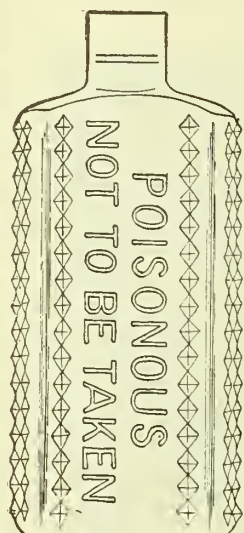
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THE

"POISONOUS" POISON BOTTLE

MADE IN ENGLAND.

The CHEAPEST POISON BOTTLE IN THE MARKET.



Front.

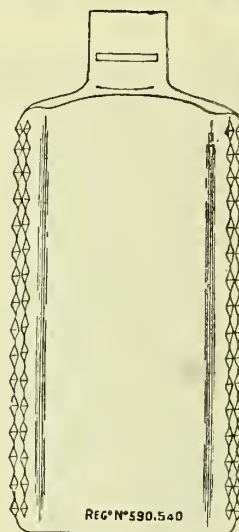
Owing to the numerous requests from the trade for a **CHEAP** Bottle to comply with the new Privy Council regulations made under the "Poisons and Pharmacy Act, 1908," the Inventors of the "Practical" Poison Bottle have designed the "**POISONOUS**" **POISON BOTTLE**, which complies with all the requirements of the new Act.

This Bottle is made with a ridge in the neck, which enables it to be used for either a rubber Stopper or a Cork, and is made in a **rich blue colour, also in pale green for Ammonia.**

Compare the following Prices with those of other Poison Bottles, and you will find them the lowest that can be obtained:—

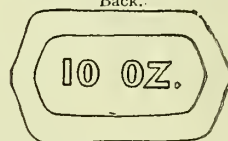
PRICES PER GROSS.

1 oz.	2 oz.	3 oz.	4 oz.	6 oz.	8 oz.	10 oz.	12 oz.	16 oz.	20 oz.	24 oz. or 25 oz.
5/-	5/9	6/9	7/9	10/-	11/6	15/-	16/6	20/9	23/6	27/9



Back.

The "**POISONOUS**" **POISON BOTTLE** can be obtained from Messrs. Maw, Son & Sons; Evans Sons Lescher and Webb (London and Liverpool); Sangers; May, Roberts and Co., Ltd., or any other of the leading Wholesale Houses.



Bottom.

THE

"IDEAL" BOTTLE

THE BEST FOR

SPECIALITIES AND PREPARATIONS.

The several flat sides have the effect of brilliantly reflecting the contents, thus greatly increasing the natural brightness of the preparation. This is evident when seen in a good light, as in a shop window. A good, attractive bottle, well labelled and finished, frequently sells a preparation.

LOOK AT THE PRICES (PER GROSS).

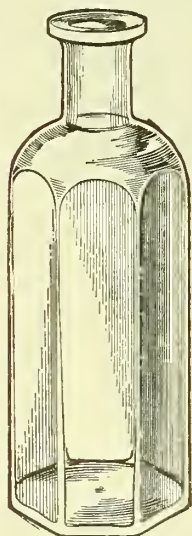
	½-oz.	1-oz.	1½-oz.	2-oz.	3-oz.	4-oz.	6-oz.	8-oz.	10-oz.	12-oz.	16-oz.	20-oz.
White Glass Plain	4/6	5/-	5/9	6/6	7/3	8/9	10/9	13/-	15/6	17/-	22/-	27/-
White Glass Globe Stoppered	18/6	19/-	20/-	20/6	21/9	24/-	28/-	31/6	34/-	37/-	44/-	48/-
Amber and Actinic Plain ...	5/3	5/9	6/6	7/3	8/-	9/6	12/3	14/-	17/-	18/6	24/-	29/-
Amber and Actinic Globe Stoppered	19/-	20/-	20/9	21/6	22/6	25/6	29/6	33/-	36/6	39/-	47/-	52/-

Compare these quotations with those of other bottles, especially the stoppered ones.

IF YOU WANT TO INCREASE THE SALE OF YOUR SPECIALITIES, TRY THEM IN THE "IDEAL" BOTTLE.

The "Ideal" Bottle can be obtained from Messrs. MAW, SON & SONS, EVANS SONS LESCHER & WEBB, Ltd., SANGERS, MAY, ROBERTS & CO., Ltd., J. F. MACFARLAN & Co. (Edinburgh), and other leading Wholesale Houses.

MADE IN ENGLAND.



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Sturge, John & E., Ltd.

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Burge, Warren & Ridgley, Ltd.
Maw, S., Son & Sons
Perken, Son & Co., Ltd.
Powell, J. T., & Co.
Raphael's, Ltd.
Zeal, G. H.

CLIPS

Reuter, R. J.

CLOTH BALLS

Senior, Alf., & Co.
Zetts, O'Neil, & Co.

COAL TAR SPECIALITIES

Wright, Layman & Umney, Ltd.

COCKROACH PASTE

Howarth & Fair

COCOA

Cadbury Bros., Ltd.

COD LIVER OIL

British Drug Houses, Ltd., The
Charity, W., & Sons
Evans Sons Lescher & Webb, Ltd.
Lorimer Marshall, Ltd.
Sparks, White & Co., Ltd.
Wright, Layman & Umney, Ltd.

COLD CREAM

Barnetts Perfumery, Ltd.

COLLAPSIBLE TUBES

Betts & Co.

COMBS

Hovenden, R., & Sons, Ltd.
Reuter, R. J.

COMPLEXION SPECIALITIES

Rubinstein, Madame H.

CONDENSERS

Bennett, Sons & Shears, Ltd.

CONFECTIONERY COLOURS

Busb, W. J., & Co., Ltd.

CONFECTIONERY, MEDICATED

Guest, Thos., & Co.

CONTINENTAL PROPS.

Wilcox, Joseau & Co.

COPPERSMITHS

Braithwaite, H., & Co.

CORKS

Mitchell, N. W., & Sons, Ltd.

CORN EXTERMINATOR

Gardner

CORN PLASTERS

Solport Bros.

COUNTER ADJUNCTS

Evans Sons Lescher & Webb, Ltd.

COUNTER SPECIALITIES

Allen & Hanbry, Ltd.
British Drug Houses, Ltd., The
Hewlett, O. J., & Sons, Ltd.
Wright, Layman & Umney, Ltd.

COURT PLASTER

Solport Bros.

CREOSOTE

Baiss Bros. & Stevenson, Ltd.
Burt, Boulton & Haywood, Ltd.

CREPE BANDAGES

Burge, Warren & Ridgley, Ltd.
Gimber, W., & Son
Leslies, Ltd.
Norwich Crêpe Co. (1856), Ltd.
Wood, Vincent

CYANIDES

May & Baker, Ltd.

DAIRY SPECIALITIES

Fullwood, R. J., & Bland
Oldfield, Pattinson & Co.

DECOCTIONS, &c., CONCENT

Wyleys, Ltd.

DENTAL MECHANICS

Cullwick, H. E.
Fentiman, A. G.
Fentiman, A. J., & Co.
Garthwaite, H.
Halder, E. O.
Wardale, F. O., & Co.

DENTAL TOOLS, ETC.

Plucknett, C. J., & Co, Ltd

DENTIFRICES

Beecham, T.
Bell (Jobn), Hills & Lucas, Ltd.
Blackie, Robert
Calvert, F. O., & Co.
Christy, T., & Co.
Cook, E., & Co., Ltd.
Euoryl, Ltd.
Jewsbury & Brown
John Strange Winter
Mason Bros. & Chapman
Maw, S., Son & Sons
Newbery, F., & Sons, Ltd.
Odol Chemical Works
Parke, Davis & Co.
Reidel, J. D., & Co.
Sangers'
Standard Tablet & Pill Co., Ltd.
Woolley, J., Sons & Co., Ltd.

DEVELOPERS (PHOTO)

Evans Sons Lescher & Webb, Ltd.
Express Developing Co.
Johnson & Sons (Mfg. Chks.)

DEXTRINE

Fink, F., & Co.

DIABETIC FOODS

Van Abbot, G., & Sons

DISINFECTANTS

Baiss Bros. & Stevenson, Ltd.
Burt, Boulton & Haywood, Ltd.
Calvert, F. O., & Co.
Coudy & Mitchell, Ltd.
Cook, E., & Co., Ltd.
Ellison, Henry, Ltd.
Pearson's Antiseptic Co., Ltd.
Sanitas Co., Ltd.
Willows, Francis B. & T.
Wright, Layman & Umney, Ltd.

DISINTEGRATORS

Hardy Patent Pick Co., Ltd.

DRUGGISTS' SUNDRIES

Ayrton, Saunders & Co., Ltd.
Barclay & Sons, Ltd.
Berliuer, Artbar
Burge, Warren & Ridgley, Ltd.
Busb, H. W., & Co., Ltd.
Christy & Co.
Edwards, W., & Son
Evans Sons Lescher & Webb, Ltd.
Hovenden, R., & Sons, Ltd.
Manson, R.
Maw, S., Son & Sons
May, Roberts & Co., Ltd.
Newbery, F., & Sons, Ltd.
Poths, H., & Co.
Queloh, H. C., & Co.
Reuter, R. J.
Sangers
Schutze, F., & Co., Ltd.
Solport Bros.
Swales, Thomas
Toogood, W., Ltd.
Watteubach, O.
Woolley, J., Sons & Co., Ltd.

DRUGS, CRUDE

Brook, Parker & Co., Ltd.
Gathergood's Exor.
Goodhall, Backhouse & Co.
Parkinson-Worswick, J.
Potter & Clarke, Ltd.
Ransom, W., & Son
Schmitt & Wildenbain
Sparks, White & Co., Ltd.

DYEWARES

Clemons, Marshall & Carbert

EAU DE COLOGNE

Bronnley, H., & Co., Ltd.
Farina, J. M.
Farina, J. M. (No. 4)
Fickus, Courtnay & Co.
McCracken, J. & R.
Reuter, R. J.
Sohntze, F., & Co., Ltd.
Spurway and Cie.

EDUCATIONAL INSTITS.

Bath & West of England College
Birmingham & Midland College
College of Preceptors
Elt's College
Glasgow School of Pharmacy
Liverpool School of Pharmacy
London College of Pharmacy
North of England School
Northern College of Pharmacy
School of Pharmacy
South of England College
Westminster College

EFFERVESCENT PREPS.

Allen & Hanbry, Ltd.
Bisbop, Alfred, Ltd.
Bristol-Myers Co.
Cupal, Ltd.
Wright, Layman & Umney, Ltd.
Wyleys, Ltd.

ELASTIC HOSIERY

Ayrton, Saunders & Co., Ltd.
Burge, Warren & Ridgley, Ltd.
Haywood, J. H., Ltd.
Maw, S., Son & Sons
Surgloal Hosiery Co., Ltd.
Wood, Vincent

ELECTRICAL NOVELTIES

Millard Bros., Ltd.
Ward & Goldstone

EMERY AND CLOTH

Oakey, J., & Son, Ltd.

EMETINE SALTS

Whiffen & Sons, Ltd.

EMULSIFIERS

Bennett, Sons & Shears, Ltd.

Wilkinson, S. W., & Co.

EMULSIONS, C. L. O., &c.

Ayrton, Saunders & Co., Ltd.
Baiss Bros. & Stevenson, Ltd.
Boulton Macro, Ltd.
Burgoyne, Burbidges & Co.
Cupal, Ltd.
Lorimer Marshall, Ltd.
Stevenson, H. E., & Co.

ENEMAS

Burge, Warren & Ridgley, Ltd.
Ingram, J. G., & Son
Maw, S., Son & Sons
Newbery, F., & Sons, Ltd.
Warne, W., & Co., Ltd.

ESSENCES, SOL. AND FRUIT

Alliance Drug & Chem. Co.
Barnett & Foster
Boake Roberts & Co., Ltd.
Bnsh, W. J., & Co., Ltd.
Bey, Wm., Ltd.
London Essence Co.
Newball & Mason
Stevenson & Howell, Ltd.
Stevenson, H. E., & Co.

ESSENCES, CONCRETE

Sparway et Cie.

ETHERS

Baies Bros & Stevenson, Ltd.
Dunoon, Flockhart & Co.
Howards & Sons, Ltd.
Macfarlan, J. F., & Co.
May & Baker, Ltd.
Tyrer, T., & Co., Ltd.
White, A., & Sons

EUCALYPTUS OIL

British Drug Houses, Ltd., The

EXTRACT OF HERBS

Newball & Mason
Potter & Clarke, Ltd.

EXTRACTS (MEDICINAL)

Allen, Stafford & Sons, Ltd.
Burrongs, Wellcome & Co.
Evans Sons Lescher & Webb, Ltd.
Gathergoods Exor.
Hewlett, C. J., & Son, Ltd.
Parke, Davis & Co.
Ransom, W., & Son

FACTORY, &C., SITES

Great Western Railway
North-Eastern Railway

FILTER PAPER

Bargoyne, Burdidge & Co.

FILTERS

Berkefeld Filter Co., Ltd.

FLYCATCHERS

Alabastine Co. (British), Ltd.
Barraclough, J., & Co.
Smith, Jno. H., & Co.
Strong, Christy
Tunbridge & Wright

FOODS, INVALID, ETC.

Allen & Hanbury's, Ltd.
Aplin & Barrett, Ltd.
Bell (John), Hills & Lnoas, Ltd.
Benger's Food, Ltd.
Bovril, Ltd.
Brand & Co., Ltd.
Bargoyne, Burdidge & Co.
Cox, Arthur H., & Co., Ltd.
Deans, Logan & Co., Ltd.
Falrochild Bros. & Foster
Horlock's Malted Milk Co.
"Lemco and Oxo"
Lofthouse & Salmter, Ltd.
Menley & James, Ltd.
Natural Food Co., Ltd.
Willows, Francis, B. & T.
Woolley, Jas. Sons & Co., Ltd.

FULLER'S EARTH

Mumford, G. S., & Sons

FUMIGATORS

Sanitas Co., Ltd.

GLYCERIN

Price's Patent Candle Co., Ltd.

GLYCEROPHOSPHATES

Merck, E.
Polnet & Girard

GREASE REMOVER

Perkin & Co., Ltd.

GRINDERS, DRUG, &C.

Allen, Stafford & Sons, Ltd.
Goodall, Backhouse & Co.
Willows, Francis, B. & T.
Wright, Layman & Umney, Ltd.

GRINDERS (MACHINE)

Hardy Patent Pick Co., Ltd.

GUMS

Fink, F., & Co.
Kildston, W. M., & Co

HAIR DYES

Marker, Stagg & Morgan, Ltd.

HAND-CARTS, TRUCKS, &C.

Drewe & Co.

HAIR PREPARATIONS

Aironal, Ltd.
Alexandre, L.
Blackie, Robert
Edwards' "Harlene" Co.
Harrison, G. W.
John Strange Winter
Nyto Preps., Ltd.
Osborne, Garrett & Co.
Robare's Aureoline
Saunders, J. Tozeau Ltd.
Van Essen, James & Co., Ltd.

HAT CLEANERS

Christy, Thos., & Co.
Senior, Alf., & Co.

HAT DYES

Whitaker & Co.

HEARING APPARATUS

Stols Electrophone Co., Ltd.

HEATING APPARATUS

Clark's Syphon Stove Co., Ltd.

HERBS

Brook, Parker & Co., Ltd.
Potter & Clarke, Ltd.
Ransom, W., & Son

HOMŒOPATHIC MEDICINES

Ashton & Parsons, Ltd.
Keene & Ashwell, Ltd.

HOT-WATER BOTTLES

Burge, Warren & Ridgley, Ltd.
Dunlop Rubber Co., Ltd.
Fulham Pottery and Cheavin
Filter Co., Ltd.
Galen Manfg. Co., Ltd.
North British Rubber Co., Ltd.
Schutze, F., & Co., Ltd.
Tompkins, J., Ltd.
Wood, Vincent
X. L. Rubber Co.

HOTELS

Kingsley Hotel
Thackeray Hotel

HYDROGEN PEROXIDE

May & Baker, Ltd.
Sanitas Co. Ltd.
Tyrer, T., & Co., Ltd.

HYPOPHOSPHITES

May & Baker, Ltd.
Tyrer, T., & Co., Ltd.

ICHTHYOL

Ichthyol Gesellschaft

INHALERS

Oso Medicated Air Co., Ltd.

INSECTICIDES

Christy, T., & Co.
Nyto Preparations, Ltd.
Tomlinson & Hayward, Ltd.

INSECT POWDER

Danys Virus, Ltd.
Keating, Thomas

INSTEP SUPPORTS

Pond, H. J.
Scholl Manfg. Co.

JUJUBES

Gnest, Thos., & Co.
Potter & Clarke Ltd.

LANOLINE

Burrongs Wellcome & Co.

LARD

Ewen, J., & Sons

LAVENDER WATER.

Bnsh, W. J., & Co., Ltd.
Rivers, Hill & Co., Ltd.

LEATHER BLACK

Whitaker & Co.

LECITHIN

Chem. Works "Victoria"
Williams, G. M., & Co.

LETTER FILES

Eeles, Walker & Co.

LIME JUICE AND CORDIAL

Evans Sons Lescher & Webb, Ltd.
Goodall, Backhouse & Co.
Idris & Co., Ltd.

LINSEED, CRUSHED, &C.

Mumford, G. S., & Sons

LINTS

Liverpool Lint Co.
Maw, S., Son & Sons
Robinson & Sons, Ltd.
Taylor, W. G.
Vernon & Co., Ltd.

LIQUORICE JUICE

Apollo
Evans Sons Lescher & Webb, Ltd.
Jackson, E. E.
Mumford, G. S., & Sons
Solazzi

LITHIA SALTS

British Drug Houses, Ltd., The
Macfarlan, J. F., & Co.
May & Baker, Ltd.

LOOFABS

Internl. Sponge Importers, Ltd.
Solport Bros.
Swales, Thomas

LOZENGES

Ayrton, Sandders & Co., Ltd.
Guest, Thos., & Co.
Jackson, E. E.
Potter & Clarke, Ltd.
Raines & Co.
Standard Tablet & Pill Co., Ltd.
Warrick Bros., Ltd.

MACHINERY, PHARMACAL

Allea & Hanburys, Ltd.
Bennett, Sons & Shears, Ltd.
Comet Chemical Co., Ltd.
Gardner, Wm., & Sons, Ltd.
Hardy Patent Pick Co., Ltd.
Lister, R. A., & Co., Ltd.
Finder, J. W., & Co.
Stokes, F. J., Machine Co.
Wilkinson, S. W., & Co.

MAGNESIA AND ITS PREPS.

British Drug Houses, Ltd., The
Corbyn, Stacey & Co., Ltd.
Henry, T. & W.
Howards & Sons, Ltd.
Phillips, Chas. H., Chem. Co.
Washington Chemical Co., Ltd.

MALT EXTRACT & PREPS.

Boulton, Macro, Ltd.
British Diamalt Co., Ltd.
British Drug Houses, Ltd., The
Burrongs Wellcome & Co.
Davies Sons & Co.
Evans Sons Lescher & Webb, Ltd.
Paine & Co., Ltd.

MANICURE CASES

Hovenden, R., & Sons, Ltd.

MARKING INK

John Bond ("Crystal Palace")

MEAT EXTRACTS

Armon & Co., Ltd.
Bovril, Ltd.
Brand & Co., Ltd.
"Lemco and Oxo"
Tooth's Extract of Meat Co.

MENTHOL CONES

Pharm. Ind. Ges. Offenbach

MERCURIALS

Alliance Drug & Chem. Co.
Howards & Sons, Ltd.
May & Baker, Ltd.
Tyrer, T., & Co., Ltd.

METAL GOODS

Betts & Co., Ltd.
Eley Bros., Ltd.

METHYLATED SPIRIT

Burrough, J., Ltd.
Macnair, A., & Co.
Preston's Liverpool Distillery
Randall & Son, Ltd.

MICROSCOPES

Raphael's, Ltd.

MINERAL WATERS, SALTS

Apollinaris Co., Ltd.
Hughes, E., Griffiths
Ingram & Royle, Ltd.
Vichy (State Springs)
Vittel

MIXERS AND SIFTERS

Comet Chemical Co., Ltd.
Gardner, Wm. & Sons (Gloucester), Ltd.

MUSTARD PLASTER

Rneff, Julius

NIGHT-LIGHTS

Prescott & Co.

OINTMENTS

Blackie, Robert
Burgess, E.
Calvert, F. C., & Co.
Cartwright, W. B., Ltd.
Cox, Arthur H., & Co.
Oldfield, Pattinson & Co.
Peat Products (Sphagnum), Ltd.
Smith, Maurice,
Zimmermann, Chas., & Co.

OILS, ESSENTIAL

Allen, Stafford & Sons, Ltd.
Alliance Drug & Chemical Co.
Boake, A., Roberts & Co., Ltd.
Bnsh, W. J., & Co., Ltd.
Dodge & Olcott Co.
Evans Sons Lescher & Webb, Ltd.
London Essence Co.
Poppelreuter, W.
Ransom, W., & Son
Schimmel & Co.
Spurway & Cie
Stevenson & Howell, Ltd.
Varaldi, F.
Wright, Layman & Umney, Ltd.
Zimmermann, Chas., & Co.

OILS, MINERAL, FATTY

Allen, Stafford & Sons, Ltd.
Price's Patent Candle Co.
Sobliemann's Oil & Ceresine Co
Stern Sonneborn Oil Co., Ltd.

OLIVE OIL

Goodall, Backhouse & Co.
Sparks, White & Co., Ltd.
Varaldi, F.

OPTICAL GOODS

Anglo-American Optical Co.
Botwright & Grey
Darton, F., & Co
Maw, S., Son & Sons
Nitsche & Gunther Opt. Co., Ltd.
Raphael's, Ltd.

OPTICAL TUITION

British Optical Institute, Ltd.
Dioptric Association
Spectacle Makers' Company

ORANGE QUININE WINE

Hobson, Joseph, & Son
Melrose-Drover Co., Ltd.
Millar, A., & Co., Ltd.
Robinson, B., & Co., Ltd.

ORGANOTHERAPY

British Organotherapy Co., Ltd.

OTTO OF ROSE

Sparway & Cie

OTTO OF ROSE (SYNTH.)

Bnsh, W. J., & Co., Ltd.
Kerfoot, Thos., & Co.
Warrick Bros., Ltd.
Wright, Layman & Umney, Ltd.

PACKED GOODS

Allen & Hanburys, Ltd.
Baies Bros. & Stevenson, Ltd.
Blackie, Robert
Boulton Macro, Ltd.
Brook, Parker & Co., Ltd.
Cartwright, W. B., Ltd.
Cox, Arthur H., & Co., Ltd.
Christy, Thos., & Co.
Cupal, Ltd.
Davies, Sons & Co.
Evans Sons Lescher & Webb, Ltd.
Goodall, Backhouse & Co.
Harker, C. R., Stagg & Morgan
Lorimer Marshall, Ltd.
May, Roberts & Co., Ltd.
Newball & Mason
Oldfield, Pattinson & Co.
Potter & Clarke, Ltd.
Sangers
Standard Tablet & Pill Co., Ltd.

PALATINOIDS

Oppenheimer, Son & Co., Ltd.

PAPER HANDKERCHIEFS

Powell, J. T., & Co.

PASTILLES

Allen & Hanbury's, Ltd.
Asche, C. F., & Co.
Burrongs Wellcome & Co.
Evans Sons Lescher & Webb, Ltd.
Kerfoot, Thomas, & Co.
Taverner & Sons, Ltd.
Valda Pastilles
Warrick Bros., Ltd.

PATENT AGENTS

Barker, R. W.
Newnham, Browne & Co.

PERFUME MATERIALS

Boehringer, C. F., & Soehne
Bnsh, W. J., & Co., Ltd.
Kerfoot, T., & Co.
Naef, M., & Co., Succors.
Schimmel & Co.
Schwarz, A. W.
Spurway & Cie.
Varaldi, F.
Wright, Layman & Umney, Ltd.
Zimmermann, C., & Co.

PEPPERMINT OIL

Bing, M. & A. Co.
Bush, W. J., & Co., Ltd.
Dodge & Oloott Co.

PERFUMES

Allen & Hanbury's, Ltd.
Raisa Bros. & Stevenson, Ltd.
Barnettes Perfumery, Ltd.
Bromley, H., & Co., Ltd.
Bnsh, W. J., & Co., Ltd.
Christy, T., & Co.
Evans Sons Lescher & Webb, Ltd.
Gambles, J. C., & Co.
John Strange Winter
Kerfoot, T., & Co.
Lescol Perfumery Co.
McCraeken, J. & R.
Prichard & Constance, Ltd.
Queloh, H. C., & Co.
Rivers, Hill & Co., Ltd.
Southall Bros. & Barclay, Ltd.
Vinolia Co., Ltd.
Warrick Bros., Ltd.
West, T., & Son
Wolf, F., & Sohn

PESSARIES (SOLUBLE)

Burge, Warren & Ridgley, Ltd.
Rendell, W. J.

PETROLEUM JELLY

Chesebrough Manfg. Co.
Gardner & Andrew
Schliemann's Oil & Ceresine Co.
Stern, Sonneborn Oil Co., Ltd.

PHOSPHORUS AND PREPS.

May & Baker, Ltd.

PHOTO. CHEMICALS

Boehringer, C. F. & Soehne
Johnson & Sons (Mfg. Chta.), Ltd.

PHOTO. GOODS

Ayrton, Saunders & Co., Ltd.
Barclay & Sons, Ltd.
Burroughs Wellcome & Co.
Evans Sons Lescher & Webb, Ltd.
Express Developing Co.
Hilford Ltd.
Kent, G. B., & Sons, Ltd.
Lennon, Ltd.
May, Roberts & Co., Ltd.
Newbery, F., & Sons, Ltd.
Rajar, Ltd.

PHOTO. POSTCARDS, ETC.

Rajar, Ltd.

PILL MAKERS

Cox, A. H., & Co., Ltd.
Davies, Sons & Co.
Standard Tablet & Pill Co., Ltd.

PLASTERS

Alcock Manfg. Co.
Berliner, Arthur
Dalmas, A. de St., & Co.
Galen Mfg. Co., Ltd.
Leslies, Ltd.

PLATE POWDER

Lees, A., & Co.

PLEATED PAPER

Darter, Wilkinson & Co.
Smith Bros. & Co.

POLISHES (VARIOUS)

Bradley & Bondas
Oakley, J., & Sons, Ltd.

POSTAL BOXES

Eeles, Walker & Co.
Robinson & Sons, Ltd.

POWDER PAPER

Prichard & Constance, Ltd.

PRESS CUTTINGS

Central News

PRINTERS

Clyde Press
Ford, Shapland & Co.
Harrison & Waide
Sutley & Silverlock, Ltd.
Towusend, J., & Sons

PRINTING PRESS

Excelsior Printers' Supply Co.
Paragon Press Co.

PROPRIETARY ARTICLES

Anglo-American Pharm. Co.
Anglo-Indian Drug & Chem. Co.

PROPRIETARY ART.—cont.

Aplin & Barrett, Ltd.
Arnfield, J. C., & Sons, Ltd.
Ashton & Parsons, Ltd.
Barclay & Sons, Ltd.
Beecham, T.
Bow's Liniment, Ltd.
British Drug Houses, Ltd., The
Burgess, E.
Carnrick, G. W., Co.
Chameleon Oil Co., Ltd.
Christy, T., & Co.
Coleman & Co., Ltd.
Corbyn, Stacey & Co., Ltd.
Crimson Cross Dispensary
Cupal, Ltd.
Cyma Co., Ltd.
Daisy, Ltd.
Davenport, J. T., Ltd.
Demuth, R.
Dunoon, Flookhart & Co.
Edwards, W., & Son
Evans Sons Lescher & Webb, Ltd.
Faulding, F. H., & Co.
Fellows' Med. Manfg. Co.
Fennings, Alfred
Ferris & Co., Ltd.
Fox & Co. (Liverpool), Ltd.
Freeman's Chlorodyne, Ltd.
Fulford, O. E., Ltd.
Gambles, J. C., & Co.
Goodall, Backhouse & Co.
Harrison, Geo. W.
Henry, T. & W.
Hommel's (Dr.), Hæmatogen
Hughes, E. Griffiths
Iohthol Gesellschaft
International Laboratories
Kay Bros., Ltd.
Kntnow, S., & Co., Ltd.
"Lemoo and Oro"
Lofthouse & Saltmer
Martindale, W.
May, Roberts & Co., Ltd.
Mergentheim Tablets
Newbery, F., & Sons, Ltd.
Odol Chemical Works
Oppenheimer, Son & Co., Ltd.
Owbridge, W. T., Ltd.
Phillips, Chas. H., Chem. Co.
Pinex Co., Ltd.
Pontogen Co.
Primer, J.
Resinol Chemical Co.
Richter, O., & Co.
Riedel, J. D., Co.
Rubenstein, Madame H.
Rnbwel Co.
Sangers'
Sargol, Ltd.
Schimmel & Co.
Scott & Bowne, Ltd.
Squire & Sons
Standard Tablet & Pill Co., Ltd.
Thermogene Co., Ltd.
Thompson & Capper
Tunbridge & Wright
Valda Pastilles
Wait-and-See Proprietary
Warrick Brothers, Ltd.
White, A. J., Ltd.
Wilcox, Joseau, & Co.
Woodward, W., Ltd.
Wright, Layman & Umney, Ltd.
Zimmermann, O., & Co.

PUFFS

Solport Bros.

PUMPS

Berkefeld Filter Co., Ltd.

QUININE AND SALTS

Alliance Drug & Chem. Co.
Boehringer, C. F. & Soehne
Corbyn, Stacey & Co., Ltd.
Howards & Sons, Ltd.
Pointet & Girard

RADIO-ACTIVE MINERALS

Harrington Bros., Ltd.

RENNET

Fullwood & Bland
Oldfield, Pattinson & Co.

RESINS AND RESINOIDS

Allen, S., & Sons, Ltd.
Macfarlan, J. F., & Co.
Ransom, W., & Son
Smith, T. & H., Ltd.

RESPIRATORS

Zimmer & Co.

RUBBER GOODS

Berliner, Arthur
Burge, Warren & Ridgley, Ltd.
Haywood, J. H., Ltd.
Ingram, J. G., & Son
Maw, S., Son & Sons
Surgical Hosiery Co., Ltd.
Tompkins, James, Ltd.
Warne, W., & Co., Ltd.
X. L. Rubber Co.

RUBBER STAMPS

Riohford, O. D.

SACCHARIN

Saccharin Corporation, Ltd.

SAMPLE CASES

Keane, Thomas

SANTONIN

Smith, B. A., & Co.

SAPONIN

Field, O. W.

SCIENTIFIC APPARATUS

Reynolds & Branson, Ltd.
Perken, Son & Co., Ltd.

SEA SALT

Tidman & Son, Ltd.

SEED-DRESSING

Hawker, Arthur E.
Tomlinson & Hayward, Ltd.

SERUMS AND ANTITOXINS

Allen & Hanbury's, Ltd.
Burroughs Wellcome & Co.
Evans Sons Lescher & Webb, Ltd.
Parke, Davis & Co.
Schimmel & Co.
Wilcox, Joseau, & Co.

SHARES

MoAdam & Tuckniss

SHEEP DIPS

Burt, Boulton & Haywood

SHEEP MEDICINES

Pettifer, Stephen, & Sons

SHELLAC

Kershaw, H. B., Ltd.

SHOP FITTING

Ayrton-Graham Ltd.
Cook, George
Evans Sons Lescher & Webb, Ltd.
Grant, D.
Josephs, Philip, & Sons, Ltd.
Maw, S., Son & Sons
Parnall & Sons, Ltd.
Rudduck & Co.
Sangers'

SHOW STANDS

Louden and Colonial Manfg. Co.

SOAPS, TOILET, &c.

Allen & Hanbury's, Ltd.
Armour & Co., Ltd.
Bell, John Hills & Lucas, Ltd.
Bronnley, H., & Co., Ltd.
Calvert, F. O., & Co.
Chesebrough Manfg. Co.
Christy, Thos., & Co.
Cook, E., & Co., Ltd.
Euoryl, Ltd.
Evans Sons Lescher & Webb, Ltd.
Fulford, O. E., Ltd.
Gibbs, D. & W., Ltd.
Harrison, G. W.
Hovenden, R., & Sons, Ltd.
John Strange Winter
Lescol Perfumery Co.
Olivall Anglo-Spanish Soap Co.
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Peat Products (Sphagnol), Ltd.
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Resinol Chemical Co.
Wolf, F., & Sohn
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SPIRIT OF WINE

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Burroughs Wellcome & Co.
Bush, H. W., & Co., Ltd.
Dalmas, A. de St., & Co.
Davis, John Morgan, & Sons
Galen Manfg. Co., Ltd.
Gimber, W., & Son
Haynes, G., & Co.
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WITH COD LIVER OIL

NEATLY PACKED.



FREE PACKAGES.
FREE SHOWCARDS.
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8-oz. Jars, 4 - per doz.
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Minimum, 3 dozen.

Write for special terms for orders booked during August. Either prompt or forward delivery.

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Have you ordered your Lung Tonic yet?

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(TWENTY-FIFTH ISSUE)

IS NOW IN THE PRESS,
AND WILL BE READY FOR DIS-
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THIS MONTH. A COPY WILL BE
SENT TO ALL OUR CUSTOMERS,
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CHEMIST AND DRUGGIST WHO
MAY APPLY.

IN IT WILL BE FOUND PARTICULARS AND PRICES OF

New Boxes, New Bottles, New Odours,

IN OVER 600 VARIETIES,

RANGING IN RETAIL
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SPECIAL

£1 & £2 Sample Assortments

CARRIAGE PAID, to any Chemist in Great Britain and Ireland.

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| £1—"The Popular" | | Set A | | 22 Boxes | | Retailing 6½d. to 2/6 |
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DO YOU RUN AN "OWN" BOUQUET

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If not, we shall be pleased to submit samples.

We have produced "Own" Bouquets for many of our friends up and down the country who find them not only very profitable lines, but productive of regular custom.

OUR EXPERIENCE AS SPECIALISTS IS AT YOUR DISPOSAL.

We have a number of

SUITABLE ODOURS TO CHOOSE FROM,

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A request for samples entails no obligation to purchase.

Real Devonshire Violets.

At last, the elusive odour of these fragrant and delightful little flowers has been successfully reproduced, and our

REAL DEVONSHIRE VIOLETS

is acknowledged on all hands to be the only real, "true-to-nature" Violet Scent.

Packed in 1/- and 2/6 Bottles, as illustrated, holding 1 oz. and 2 oz., at

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Supplied also in Bulk 13/- lb.



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FULL SIZE.

For use in Theatre, Ballroom, &c., and for Motorists and Ladies who take part in Outdoor Games. May be carried in purse or suspended from wrist.

PRICE 10/- per doz. boxes.
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LAVENDER Cultivated
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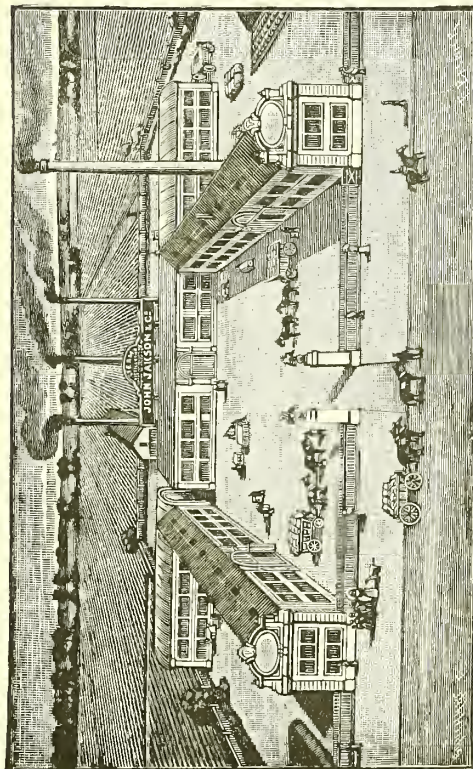
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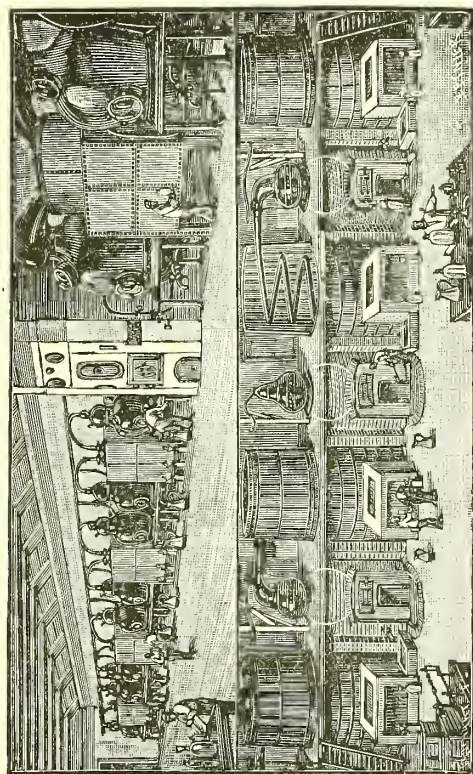


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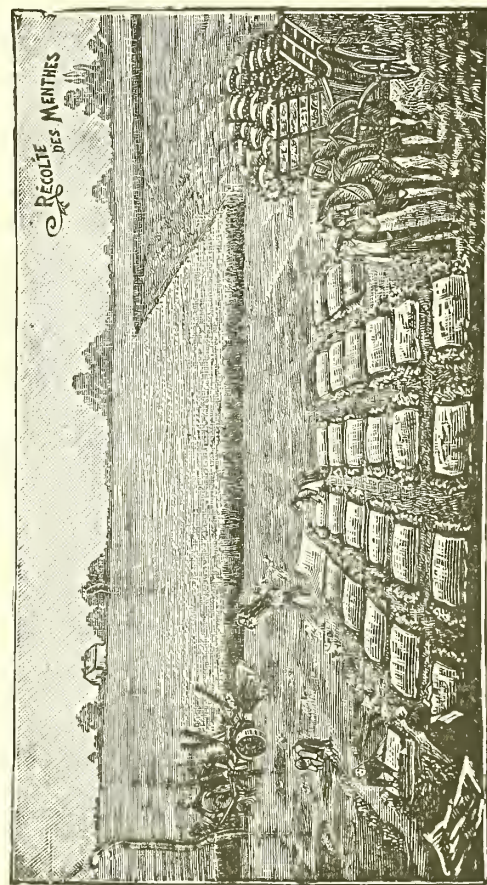


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Having visited the cultivation grounds and distilleries of Messrs. John Jakson & Co., devoted to the production of lavender, peppermint, and other essential oils, and having submitted samples of the oils prepared by this firm to a careful physical and chemical examination, I can bear testimony to the very complete arrangements, with all modern appliances, which are here provided for distilling essential oils, and to the excellent quality of the oils so distilled.

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SOLUBLE ESSENCES, ESSENTIAL OILS, OIL LEMON.

If you wish to make first-class
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BOAKE ROBERTS' ESSENCES.

Finest Soluble Essences:

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GOLDEN CARAMEL COLOURINGS, &c.
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In Charming Cut Crystal Bottles, 5 ²/₂₄ from 2/6.



A Perfume
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Distinctive Character, remarkable
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Sole Makers — **F. WOLFF & SOHN,**
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THE NEW ASTRINGENT

for wrinkles and flabby
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Retail, 10¹/₂d.

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6 doz. @ 4/6, 12 doz. @ 4/- per doz.

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BARNETTS PERFUMES & COLD CREAM

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RELIEVES THE HEAD.

P.A.T.A. - 14/9 doz. net.
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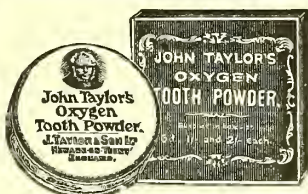
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JOHN TAYLOR'S TOILET PREPARATIONS.



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OXYGEN TOOTH POWDER

Send an order for 3 dozen 6d. Oxygen Tooth Powder and we will send you One dozen free and three tins of Talcum.

NOTE—

YOU PAY FOR 3 doz. 6d. Oxygen Tooth Powder @ 3/6 =	10/6	£	s.	d.
YOU SELL 4 doz. 6d.	@ 6d. =	:	1	4
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			0	16
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SHOWING A PROFIT OF 16/- ON AN OUTLAY OF 10/6

YOUR REPEAT ORDERS ON THESE LINES WILL ASTOUND YOU.

Testimonials from Chemists all over the World.

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REMEMBER THE NAME.—Many ladies will ask you this summer for this beauty cream, made famous by London's fashionable West End Complexion Specialiste, Mme. Helena Rubinstein. It will not show flattering business acumen not to be able to supply it.

RETAIL PRICE: 4/6, 8/6, and 21/- A POT.

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4-oz. Bottles, 33/- 10-oz. Bottles, 66/- per doz.

Wholesale from R. HOYENDEN & SONS, LTD., and from all the principal Patent Medicine Warehouses in London.



KILLS NITS AND IS GUARANTEED TO REMOVE THEM.

A delightful Shampoo Powder. A perfect insecticide. 2d. per packet, sufficient for two shampoos. Of all wholesale sundries houses, or from

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Full particulars on application.

OLIVAL
(TRADE MARK)
SOAP.

**Manufactured in Malaga, Spain, by the
ANGLO-SPANISH OLIVAL SOAP CO.,
solely from Pure Products of the Olive.**

THE ANALYTICAL REPORT IN THE LANCET, APRIL 13th, 1912, SAYS:—

"The statement that this soap is produced from olive oil is supported by our analysis. We separated from the soap the fatty acids and they were found to give physical constants identical with those obtained when the fatty acids of olive oil are examined. We also directed our attention to the iodine-absorption value of the liberated fatty acids and the figure obtained was 88, which is the figure recorded by authorities as yielded by the fatty acids of genuine olive oil. It may fairly claim to be a pure unirritating soap."

Recommended specially for Surgical Cases, for all Irritable Cutaneous Affections, for Children and persons with Tender Skins.

To be obtained of all Wholesale Houses, who are supplied through the Sole Agent for the United Kingdom and the Colonies:

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"The Goods that know No Season."

" HARLENE."

		Retail.	Wholesale.
No. 1 size	.	1/-	11/- doz.
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" 3 "	.	4/6	47/- "

" UZON " BRILLIANTINE.

		Retail.	Wholesale.
No. 1 size	.	1/-	11/- doz.
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" CREMEX " SHAMPOO POWDERS.

Retail, 1/- per box (7 Powders).

Wholesale, 11/- doz. boxes.

Also may be retailed in Single Packets at 2d.

Discount 20 per cent. Minimum Orders £5 net.

Carriage Paid.

" ASTOL, " For Restoring Grey or White Hair.

Minimum Prices :—Retail, 2/9 and 4/6; Wholesale, 26/6 and 42/- per doz. net.

"Astol" Complete Parcels :—Retail, 8/-;

Wholesale, 6/4 net.

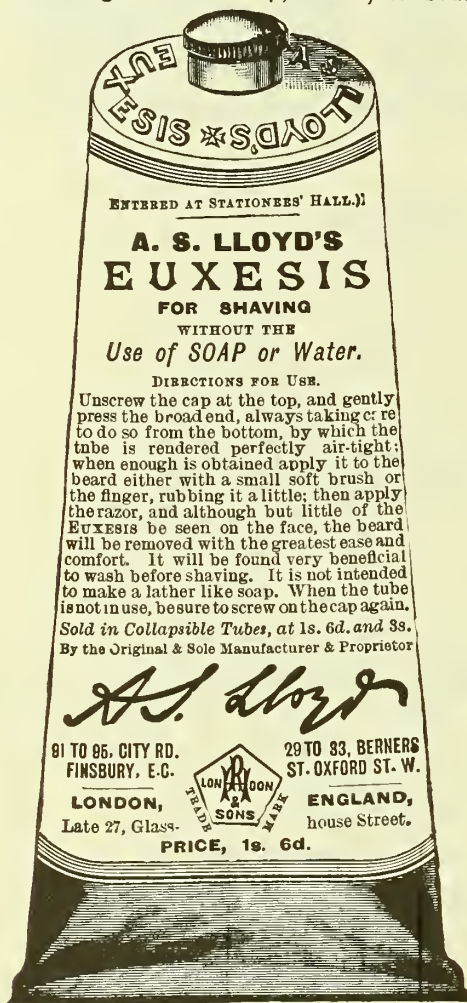
We shall be pleased to supply Showcards, Dummies, Counter Bills, &c., on receipt of P.C. to the Manufacturers—

EDWARDS' HARLENE Co.
104 HIGH HOLBORN, LONDON, W.C.

A. S. LLOYD'S EUXESIS

(THE GENUINE.)

For Shaving Without Soap, Water, or Brush.



Sold by all Perfumers and Chemists throughout the World.

R. HOVENDEN & SONS having purchased, under an administration suit, the Business of the late A. S. LLOYD, with the Receipt, Trade-mark, and Goodwill of the celebrated Euxesis, the Trade are cautioned that the original and genuine Euxesis is now manufactured at our Factory ONLY, and may be obtained at either of our Warehouses at the following prices:

10/- per dozen, 9/6 by the 3 dozen, 9/- by the 6 dozen.
 Retail at 1/6 the Tube; 3/- size to order.

NOTICE.—THE GENUINE A. S. LLOYD'S EUXESIS bears a label printed in BLACK only on a Yellow ground, with our Trade Mark at the bottom, as illustration.

Proprietors: **R. HOVENDEN & SONS,**
 LIMITED,
 29-33 Berners Street, W.
 and 89-95 City Road, E.C., LONDON.

BEETHAM'S "LAROLA"

(Registered)

Is the Skin Tonic for 1912.

It is effective.

It is attractive.

It is price-protected.

It is well-advertised.

It sells readily.

It bears a good profit.

HAVE YOU OUR SHOWCARD?

THIS IS WHAT THE "C. & D." SAYS OF IT:—

BEETHAM'S NEW SHOWCARD.—One of the prettiest lithographic productions which have come to us lately is the Larola beauty here depicted. The card measures 24 in. by 18 in., and is all roses, even the word "Larola" being formed from prickly rose-stems. The fair rose-gatherer has rosy cheeks, and she and the setting make so bright a picture that no pharmacy will be complete without it. Copies can be obtained from Messrs. M. Beetham & Son, Cheltenham, the originators of Glycerine-and-Cucumber and Larola.

This handsome Showcard, in 14 colours (size 24 by 17) can be had by any chemist who will give it a good place in his pharmacy.

M. BEETHAM & SON, Cheltenham.

OVER 100% PROFIT
 ENSURED & PROTECTED (P.A.T.A.)
 for sellers of

Laurence's Hair Dyes

One solution, nine shades.

A first-class article with an excellent demand, created entirely on its own merits, and carrying a first-class profit.

Size	Minimum retail.	Minimum wholesale.	
1/-	...	1/-	...
1/6	...	1/6	...
2/6	...	2/3	...
3/6	...	3/3	...
		7/6	...
		9/-	...
		15/-	...
		21/-	...

per doz.,
 less 5%
 discount.

SPECIAL BONUS.

Buyers of 3 doz. bottles receive 3 bottles gratis (may be assorted and any size).

Do. 6 doz. do. 8 bottles gratis.
 Do. 12 doz. do. 18 bottles gratis.

Equivalent in the case of the size in most general demand, viz., 1/6 size, to 4/6, 12/- and 27/- respectively.

SOLE PROPRIETORS—

C. R. HARKER, STAGG & MORGAN,
 DEVON WHARF, LTD.
 Emmott Street, Mile End, London, E.

A. S. LLOYD'S EUXESIS.

For Shaving without Soap, Water, or Brush.

CAUTION.

The Labels on genuine EUXESIS bear signature of A. S. LLOYD in BLACK INK, and that of his Widow, AIMÉE LLOYD, in RED INK. Refuse any other.

Sole Manufacturers and Proprietors: AIMÉE LLOYD & CO.

23 PANTON STREET (formerly named Spur St.), LEICESTER SQUARE, LONDON, S.W.

N.B.—When ordering from Wholesale Houses write LLOYD'S EUXESIS (WIDOW'S).

TRY IT IN YOUR BATH SCRUBB'S AMMONIA



BY APPOINTMENT TO H.M. THE KING.

MARVELLOUS PREPARATION

Refreshing as a Turkish Bath. Invaluable for Toilet Purposes.
Splendid Cleansing Preparation for the Hair. Removes Stains and Grease Spots from Clothing.
Allays the Irritation caused by Mosquito Bites. Invigorating in Hot Climates.
Restores the Colour to Carpets. Cleans Plate and Jewellery. Softens Hard Water.

Of all Chemists, Etc. Price 1s. per Bottle.

SCRUBB & CO., LTD., GUILDFORD STREET, LONDON, S.E.

KYHO

Registered.

Registered.

(Protected by the P.A.T.A.)

The Wonderful New HAIR RESTORER

Cooling and refreshing to the scalp, promoting new growth and restoring the natural vigour of the Hair. Contains no grease or colouring matter, yet has been found to revive the natural pigment.

Sold in bottles, 2/6; minimum retail price, 2/3.

To the Trade, 2/1/- per doz. from all the leading Wholesale Houses, or from the

KYHO PROPRIETARY, 45 Penwortham Rd., STREATHAM, S.W.

A Special **BRILLIANTINE** and a **SHAMPOO FLUID** are also supplied to be used with KYHO.

For further particulars see our full page advt. in *The Chemist & Druggist*, March 30, 1912.

400% PROFIT

"SOFTO" SHAMPOO POWDERS.

RETAIL, 2d.; WHOLESALE 8/- GROSS.

8 DOZEN GIVEN FREE WITH 1 GROSS.

3 DOZEN GIVEN FREE WITH 1 GROSS.

20 DOZEN COST 8/-; SELL FOR £2.

RETAIL, 1d.; WHOLESALE, 6/- GROSS.

4 DOZEN GIVEN FREE WITH 1 GROSS.

1 DOZEN GIVEN FREE WITH 1 GROSS.

16 DOZEN COST 6/-; SELL FOR 16/-

The above offers are at **Below Cost**, and are given as a special inducement to Chemists to introduce and push Softo preparations. Messrs. "Sangers," F. Newbery & Sons, Butler & Crispe, Barclay & Sons, May, Roberts & Co., Ltd., and other Wholesale Houses supply on same terms as above with bonus.

Write for Samples to **SOFTO MANUFACTURING CO., 33 EDWARE ROAD, LONDON, W.**

**Salrado
Compound.**

**BISURATED
MAGNESIA.**

Retail, 1/9.
Trade, 17/- per doz.

**HARRIETT META'S
GOLD MEDAL HAIR TONIC.**

Retail, 2/11.
Trade, 26/- per doz.

**Sulthine
Concentrate.**

**Lavona
de Composee**

← ALL SELLERS →

**Flowers
of Oxzoin.**

*TO-KALON Guarantee.
Extensively Advertised.
No Risk. Good Profits.*

SALE GUARANTEED

by the

TO-KALON Manufacturing Co., Ltd.

To-Kalon House, Great Portland St., London, W.

PROFITABLE SIDE LINES



An Attractive Range of Inexpensive Pocket Lamps, complete with Bulb and Battery. From 6/1 doz.



Tunsta Jewel Metal Filament Bulbs. Prices from 3/- doz.



SAMPSON MASSAGE VIBRATOR, in handsome case, 12 x 6 x 3½. Should be in every chemist's shop. Complete with Batteries. £1 12s. 0d., or to work from lighting circuit, £2 2s. 0d. See Catalogue N.



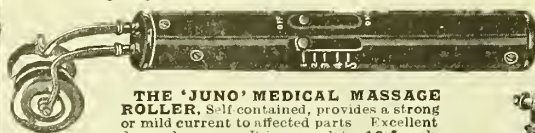
Pocket Lamp Refill Batteries of best quality, from 2/10 doz.



Elegant Waistcoat Pocket Lamp, Leatherette covering. Complete with Bulb and Battery. 1/8 each.



Dainty Waistcoat Pocket Lamps. De Luxe Pattern 1/8 each, leather covering. Popular pattern, 1/4 each, Leatherette covering, complete with Bulb & Battery.



THE 'JUNO' MEDICAL MASSAGE ROLLER. Self contained, provides a strong or mild current to affected parts. Excellent demand. Price complete, 10/4 each.

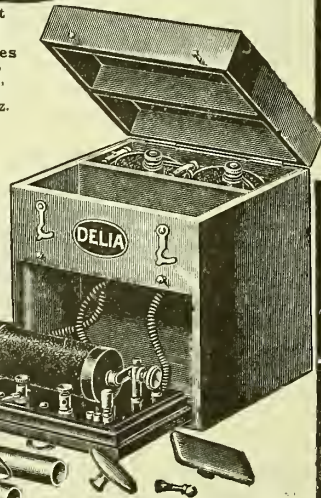
WARD & GOLDSTONE,

SAMPSON WORKS, SALFORD, MANCHESTER.

Telephones . . . 7084-5-6 Central.
Telegrams "Multum, Manchester."

Contractors to H.M. Government.

OUR LARGE ILLUSTRATED CATALOGUE "N" of Attractive Electrical Novelties is now ready. Send trade card now for full particulars. The most interesting catalogue of its kind ever issued. Post Free on application.



A Large Range of Medical Coils, from 12/- doz. The "Delia," as illustration, with Electrodes and drop-down front. Leather carrying handle, 17/4 net.

The
KOH-I-NOOR
TOOTH BRUSHES

Are made in
three degrees
of stiffness to
suit the ideas
of customers.

The handles are
flexible and of various
colours and shapes.

In their manufacture
only the best materials are
used and the **FINISH IS**
THE FINEST ON THE
MARKET.



**ASK YOUR
WHOLESALE
HOUSE**

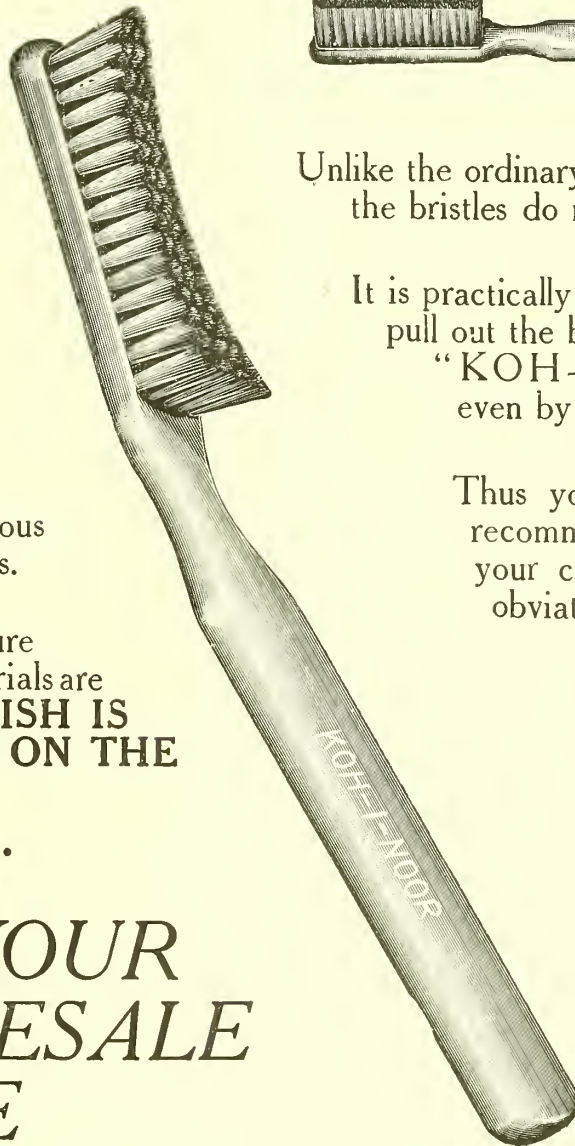
*for them and also for a supply of
"KOH-I-NOOR" Showcards.*



Unlike the ordinary tooth-brush,
the bristles do not come out.

It is practically impossible to
pull out the bristles from a
"KOH-I-NOOR"
even by force.

Thus you can safely
recommend them to
your customers and
obviate complaints.



No. 50.

Maw's

S. MAW, SON & SONS

7 TO 12, ALDERSGATE ST.
LONDON, E.C.

Page.

Telegraphic Address: "ELEVEN LONDON."

Telephone No.: LONDON WALL 3230 (4 lines).



A FEEDING BOTTLE
ENDORSED BY NURSES.
THE EXCELLENCE
OF MAW'S "EUGENIC."

Week by week the sterling
qualities of the "Eugenic"
are becoming more widely
known. A keen appreciation
of its merits
is shown
by mothers,
nurses, and
doctors. With an
increasing number of people,
indeed, the quest of a feeding
bottle evolves into a policy of
"Eugenic, or nothing."

The reason of the popu-
larity of the "Eugenic" is not
far to seek. This pattern
effectively meets all require-
ments appertaining to modern
health laws.

The bottle, of white glass, is fitted with pure trans-
parent rubber teat and valve, which can be readily
reversed for cleansing. It is so constructed that it can
be laid on either side and left temporarily with the infant
without attention, the food gravitating towards the
end on which the teat is fixed.

Each in box complete with brush, 8/6 per dozen.
Fixed minimum retail price of 1/-. A perfect bottle at
a popular price. Stock the "Eugenic" to-day.

TOE-COT

SUCCESS OF OUR
NEW CORN REMEDY.

The "Toe-Cot" has come to stay.
The "Toe-Cot" has met with instant
success and is deservedly winning its
way into public favour.

The "Toe-Cot" is the NEW and
PRACTICAL corn remedy. Shaped
like a finger stall, it slips over the
afflicted toe, and removes the most
stubborn corn by a simple sweating
process. Always comfortable. Always
in demand wherever displayed. Price
3/- per dozen. Unusually good pub-
licity matter is distributed with all
"Toe-Cot" orders. See "C. & D."
September 7th issue (page 30) for full
particulars.

VALUE OF DAINTINESS.
HANDSOME CARTONS FOR
FAMOUS TOOTH PASTES.

The popularity of
Maw's Areca,
Cherry, White
Cherry, Carbolic,
White Carbolic,
White Clove, and
Wintergreen Tooth
Pastes in collapsible
tubes will be still
further increased
now that they are
put up in attractive
cartons printed in
gold and colours.
Each brand is the
best of its kind; pre-
pared, put up, and
packed under mod-
ern hygienic condi-
tions. The price
remains the same,
3/9 dozen, usual
discount. Ask for
the tooth pastes in cartons.



H. E. STEVENSON & CO.,
122, GREAT SUFFOLK STREET, LONDON, S.E.
Wholesale Druggists and Manufacturing Chemists.

TO CHEMISTS

LOOKING FOR BEST VALUE

in

Cod Liver Oil Emulsion

we will gladly send a sample and prices for an absolutely inseparable preparation, made by the latest and most powerful machinery, remaining permanently sweet, and which is readily taken by children. An emulsion possessing these advantages soon brings a more than local reputation, and there is an enormous trade to be done in this product. Sold under the "4 Medals" brand. Customers' names, either in bulk or bottled.

REMEMBER

THE EMULSION WHICH HAS NOT BEEN EQUALLED!

PARRISH'S SYRUP

Like the Emulsion, this Syrup is made by an original process giving a quite unequalled result, in a brilliant and permanently bright preparation.

**Mr. Stevenson was for many years a Director of
Baiss Brothers & Stevenson, Ltd.**

CORRESPONDENCE WELCOMED.

THE COMPOSITION OF **SEDNA**

is the best guarantee Chemists can give of its value.

IT CONTAINS THE ACTIVE PRINCIPLES OF

**Coca Leaves
Kola Nuts and
Meat Extract**

DISSOLVED IN THE FINEST PORT WINE.

*As an ideal food beverage it is highly
recommended by medical men everywhere.*

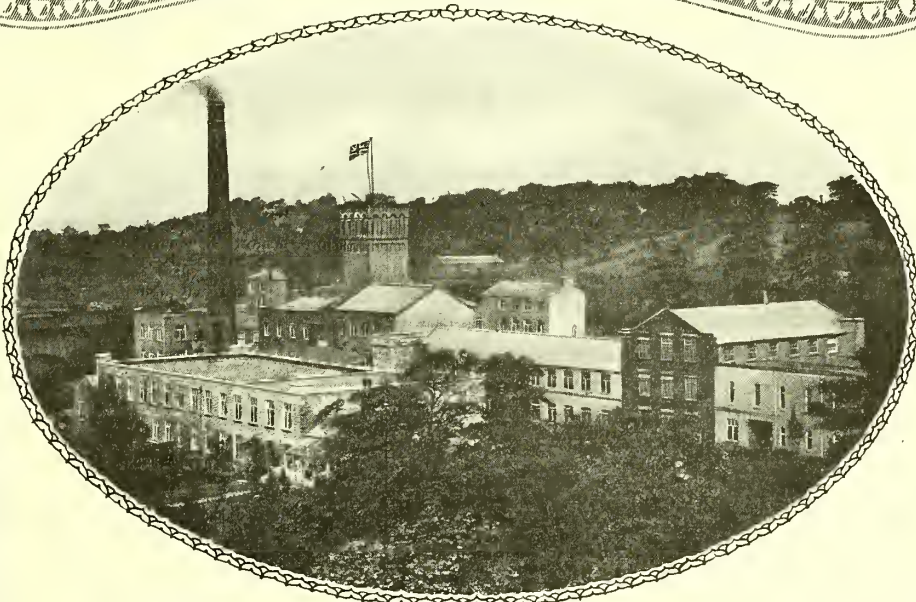
CHEMISTS CAN SELL IT READILY
IN ALL PARTS OF THE WORLD.

Carriage Paid, PRICE **27/-** PER DOZ. (large bottles)

F.O.B. LONDON,
LIVERPOOL, or GLASGOW.

WRITE AT ONCE FOR PARTICULARS OF SPECIAL OFFER.

DEANS, LOGAN & Co., Ltd.,
Belfast, Ireland.



Bardsley Vale Mills from the South.

Sole Manufacturers of the world-famed

TRADE **EMULSION** MARK

BRAND

ANTISEPTIC THROAT PASTILLES.

These and other refinements of
modern Pharmacy are made under
ideal conditions and by up-to-date
methods in the Garden Pharmacy
of

THOMAS KERFOOT & Co.,

BARDSLEY VALE MILLS, BARDSLEY, Lancs.

BARDSLEY HOUSE, HOLLOWAY ROAD, LONDON, Eng.

Depôts and Agencies:—CAPE TOWN, MADRAS, MELBOURNE, MONTREAL and NEW YORK.

Est'd 1757

COPYRIGHT

A POWERFUL NERVE AND BRAIN FOOD

WISEM

(Seed of Strength)

WISEM consists of milk casein and whey powder, with 3% of pure lecithin-ovo and 3% of glycerophosphate of soda. The casein used is made from milk produced on some of the finest pastures in the Kingdom, by a special process which yields a pleasant flavour, and retains the proteins in a soluble state. It is also rich in soluble organic phosphorus.

WISEM is made up in the form of tablets, which are eaten like biscuits. These tablets can be taken at any time and under any circumstances, and are obviously more convenient than preparations which have to be dissolved in hot water, milk, &c. It has an agreeable flavour which is distinctly superior to that of any other casein preparation.

WISEM is being largely and effectively advertised in the great national newspapers.

WISEM is also extensively advertised in the medical journals and doctors are largely prescribing it.

Beautiful showcards and interesting literature will be supplied to the trade.

Price 136 per dozen boxes.

P.A.T.A. Minimum re-selling price 1/6 per box.

APLIN & BARRETT, etc., LTD., Yeovil, Somerset,
and 33 Park Road, Battersea Park, London, S.W.

(WHOLESALE DISTRIBUTORS FOR ST. IVEL, LTD.)

Lofthouse & Saltmer, Ltd.

— Wholesale and Export Drug—
Merchants, Manufacturing Chemists,

HULL,

invite the attention of the Trade to the following well-tried preparations, which carry a big P.A.T.A. retail protected profit, and are well known and valued by the public in many parts of the country.

Losall's Asthma Remedy.

Very effective Remedy for Asthma, Bronchitis, &c.

PROTECTED RETAIL PRICE.	DOZ. net.
1/-	7/6

Losall's Salt.

The popular remedy for Eczema, Gout, Rheumatism, and Billiousness. Well advertised.

6d.	3/6
1/-	7/-
1/6	10/6

Losall's Com-pound Sulphur Soap.

A valuable emollient medicated Skin Soap, especially for use in Eczema cases.

1/-	8/-
-----	-----

Prepared Barley ("CROWN" BRAND).

Usual 1/- size, lever lid tins, for children and invalids.

4/-

Malted Food.

Usual 1/- size, lever lid tins, name and address free on 3 dozen. Special design label with name and address on gross orders, if desired.

4/6

London Agents: F. NEWBURY & SONS, Ltd.

GOOD! IT'S MASON'S

The Drink for the Masses

Millions of glasses used daily
by workers all over the Empire

Please allow us to Sample and Quote—



Citrate Magnesia

Health Salt

Salines

Liver Salt

Blood Salt

Sulph. & Sarsap. Salt

Lemonade

Crystals, &c.

NEWBALL & MASON
NOTTINGHAM

Our Monthly Bulletin. No. 5.

Contains a Valuable Trade Suggestion each Month.

To the good class Chemist who is careful of his trade and reputation, the manufactures of Bais Brothers & Stevenson, Limited, appeal.

Especially their COD LIVER OIL EMULSION which is the result of many years' effort and study on their part so that to-day they are amongst the largest Emulsion makers in this country. Regular orders come from all parts of the kingdom and abroad, and at the present time the firm is exceptionally busy. To ensure prompt delivery, particulars should be obtained and orders placed as quickly as possible. Samples, cartons, showcards, &c., free of charge.

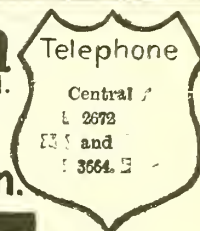
Other seasonable lines for which favorable quotations can be given are Lin. Camphor, B.P. (every batch standardised); Finest Norwegian Cod Liver Oil, bottled or in bulk; Glycerine; Oil Eucalyptus, Globulus and B.P., own importation; Tr. Quininæ Ammon., bottled or in bulk; Embrocation; Black Currant Cough Syrup; Wild Cherry Cough Linctus; Glycerol Heroin c Terpin Hydrat (Baiss); Glycerol Thymol Co. (Baiss); Mist. Bismuthi Aromat, with or without Pepsin.



Baiss Brothers & Stevenson
Limited.

MANUFACTURING CHEMISTS & WHOLESALE DRUGGISTS

174-175 Grange Rd., Bermondsey, London.



A PROFITABLE PROPOSITION
FOR THE PHARMACIST!!

MALT-GLIDINE

(WITH LECITHIN)

A POWERFUL NERVE FOOD-TONIC.

MALT-GLIDINE OFFERS THE
FOLLOWING ADVANTAGES:

SEND A
POSTCARD
FOR
PARTICULARS
OF
SPECIAL
WINDOW-DISPLAY
TERMS.

- ¶ Large Profit on Small Outlay.
- ¶ Prices are Protected.
- ¶ Permanent Demand where introduced.

The formula of Malt-Glidine is **unique**. It contains 6% of Lecithin in addition to 5% Phosphoric and other Reconstituent Salts, 18% Natural Fats, 37% Unimpaired Vegetable Protein, and 34% Malted Carbohydrates.

1/3 & 2/9 PER TIN. 10 - & 22/6 PER DOZ.
MINIMUM PRICE ... 1/2 & 2/6 PER TIN.

MENLEY & JAMES, Ltd., 39 Farringdon Rd., LONDON, E.C.

HORLICK'S MALTED MILK

(In Powder Form).

No Cooking. Prepared instantly by stirring
vigorously in water, hot or cold.

THE FOOD that BRINGS RESULTS

The first thought of experienced dietitians when selecting a palatable, nourishing, easily assimilated food.

¶ The wholesome, invigorating principles of pure milk and choice malted grain, so prepared as to be properly assimilated in the feeblest conditions.

¶ Used more extensively every year in the feeding of infants and as a supplementary nutrient for growing children. Also with increasing confidence by adults as a table beverage in the home—superior to tea or coffee at meals—and an efficient corrective of insomnia taken hot before retiring.

Endorsed by the Medical Profession.
Recommended and sold by all Chemists, in three sizes: 1/6, 2/6 and 11/-

ADVERTISING MATTER PREPAID ON REQUEST.

Horlick's Malted Milk Co.
SLOUGH, BUCKS.

YOU SHOULD STOCK MERSEL'S FOOD

FOR INFANTS, INVALIDS, AND THE AGED.

MERSEL'S FOOD is a preparation of pure malted wheat. It is an ideal food for infants, invalids, and the aged, being easily digested and retained by the weakest stomachs. Albert E. Bell, the well-known analyst, says:—"It is a complete food of high nutritive value." Put up in 1/- tins only.

KNO-SKA OINTMENT

(NO-SCAR)

FOR ECZEMA, HÆMORRHOIDS, ETC.

KNO-SKA is an antiseptic and emollient ointment of wonderful efficacy. It is indicated in eczema, hæmorrhoids, psoriasis, boils and skin troubles generally. The remarkable success which attends the use of KNO-SKA is making it increasingly popular all over the country. Put up in collapsible tubes, in two sizes only, at 1/1½ and 2/9.

Write for particulars of

MERSEL'S FOOD AND KNO-SKA BONUS SCHEME.

A. J. WHITE, Ltd., 35 Farringdon Road, LONDON.

N.B.—Mother Seigel's Syrup in TABLET FORM is a line which is increasing in popularity DAILY.

"HERNICURA" Trusses

(REGD.)



REASONS

Why you should stock "Hernicura" Trusses (Regd.):

MARVELLOUS VALUE.

PRACTICAL SHAPES.

ALL LEATHER.

GREAT ADAPTABILITY

[Example: A 33 in. Truss will fit either 32, 33 or 34 in.]

MEANS LARGE RANGE WITH SMALL STOCK.

WILL BUILD UP YOUR TRUSS TRADE.

Singles, 18/- doz. Doubles, 39/- doz.
Specials by return.

LIST ON APPLICATION.

JOHN MORGAN DAVIS & SONS,
278 BISHOPSCATE, LONDON, E.C.

5%

Cash Bonus

Messrs. Bovril, Ltd., are offering again this year the special 5% cash Bonus on all orders received between September 16th and October 31st inclusive.

This Bonus, it should be remembered, is computed on the GROSS Purchases.

The record demand for Bovril last year will, in all probability, be exceeded during the coming season; therefore—

Order Your Stocks Early

and be ready to sell Bovril as soon as the public is ready to buy. Bovril sells quickly and consistently the whole season through, and there is a liberal profit on the sales.

But remember, there is only one Bovril—there may be other goods that look like Bovril, but they don't sell as BOVRIL Sells.

For full particulars of Trade Terms and Bonus Offer apply to BOVRIL LTD., 152-166, OLD STREET, LONDON, E.C.

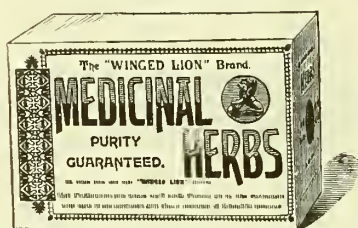
BOVRIL

"GOOD HERBS"

THAT'S
WINGED LION



BRAND.



Put up in $\frac{1}{4}$ -gross Cardboard Cartons,
6s. per gross.

POTTER'S ASTHMA CURE . .

Is. Tins (P.A.T.A.) 10½d.
8s. 6d. doz. nett.

ADVERTISED EVERYWHERE.

"FIVE BARKS"

(REGISTERED TRADE MARK.)

Chest and Lung Jubes



OUR NEW POSTER.

THE LARGEST SALE OF ANY COUGH JUBE
IN THE UNITED KINGDOM.

4 lb. (enamelled boxes) 9d. lb. nett.

7 lb. Tins ... 8½d. lb. nett.

3½d. Boxes (4 oz.) ... 2s. 6d. doz.

Poster, Showcards, &c., sent with all Orders.

Potter & Clarke, Ltd.

60-64 ARTILLERY LANE, LONDON, E.

And at 24 Luna Street, Great Ancoats, MANCHESTER.

BETTER THAN "PROTECTED" PROFITS.

It is claimed for advertised proprietary lines that the quality is ensured by the self-interest of the manufacturer in his advertising.

Of at least one "Chemist's Proprietary" the same can be said. It is impossible to sell the public a Cod Liver Oil Emulsion which is not a first-class quality and flavour, because the public will not buy ill-tasting, badly-made emulsions.



No Emulsions on the market equal in flavour the two leading lines of **BOULTON MACRO, LIMITED**, Manufacturers of Chemists' Proprietary—namely,

Cream Emulsion

4 oz., 3/6 doz.; 6 oz., 5/6; 8 oz., 6/-; 12 oz., 9/-; 16 oz., 10/-.

Triple Emulsion

"FERMALTOL."

(finest Lofoten Cod Liver Oil, with Malt and Chemical Food.)

1/- size 7/- doz.
1/9 size 12/- doz.

SPECIAL INTRODUCTORY-ORDER PROPOSITION.

With a first order for 3 doz. Triple Emulsion (either size) we give 1/3 doz. free, showing the following profit:—

			£	s.	d.				£	s.	d.
Invoice price, 3 1/2 doz. as 3 doz. ...	1/- size	1	1	0		1/9 size	1	16	0		
Selling price, 42 bottles at 1/- ...		2	2	0		1/9	3	13	6		
		£1	1	0			£1	17	6		
		or 100%					or 104.2%				

ORDER NOW FROM

BOULTON MACRO, LIMITED,

Crayford Mills, Warton Road, Stratford, E.

USE THIS COUPON OR WRITE FOR OUR FULL ILLUSTRATED LIST OF PACKED GOODS & DRUGS.

To BOULTON MACRO, LIMITED, Crayford Mills, Warton Road, Stratford, E.

Please send free of charge your illustrated List.

Name Chemist

Address

YOU MUST



ADVERTISE.

Early to bed and early to rise is all very well, BUT—you must advertise.

Advertise your own specialities and you will sell more of them. Advertise "Daisy" and you will sell more of it and reap a substantial profit into the bargain.

Use our mutual handbills—which are designed to advertise your own specialities and "Daisy" at the same time—and do your advertising at a minimum cost.

The Bills are well printed on glazed, tinted paper, and you can have 5,000 carriage paid to your address for 3/2, or 10,000 for 5/8.

Write at once for specimens and full particulars.

Now is the time to prepare for the winter.

DAISY, Ltd., Mammoth Works, **LEEDS.**

ESTABLISHED 1893.

Telegrams: "DAISY LEEDS."

RETAIL
THESE
INSTEAD

AT



7¹/₂^{D.}

OR 9¹/₂^{D.}

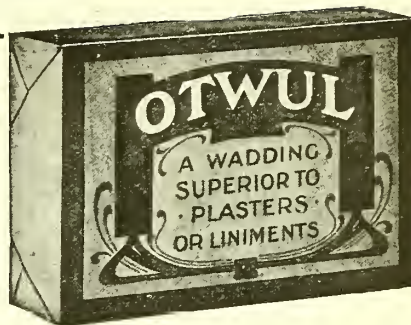
COSTS
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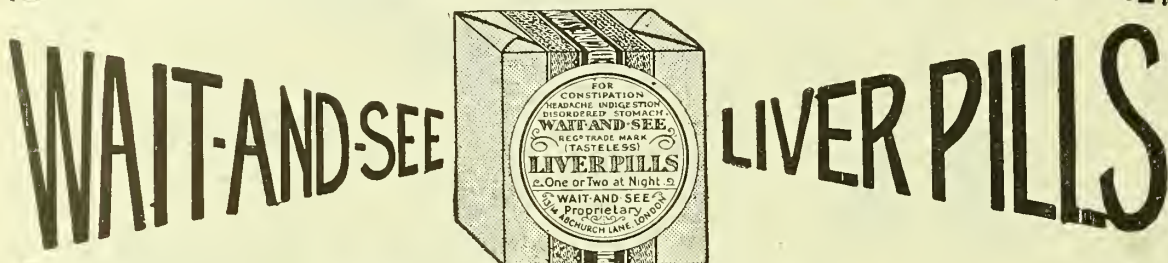
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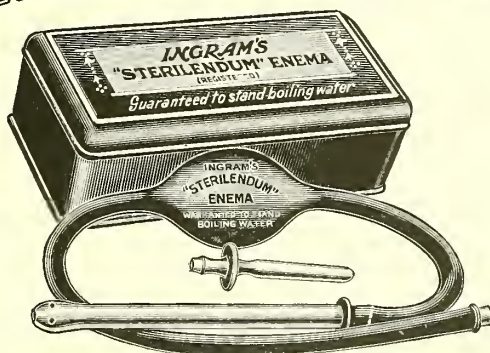
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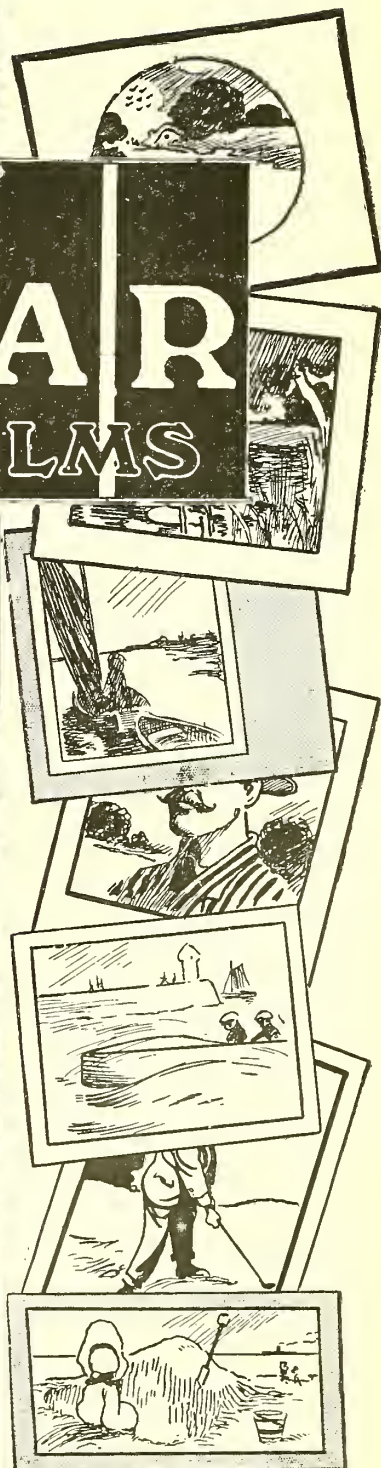
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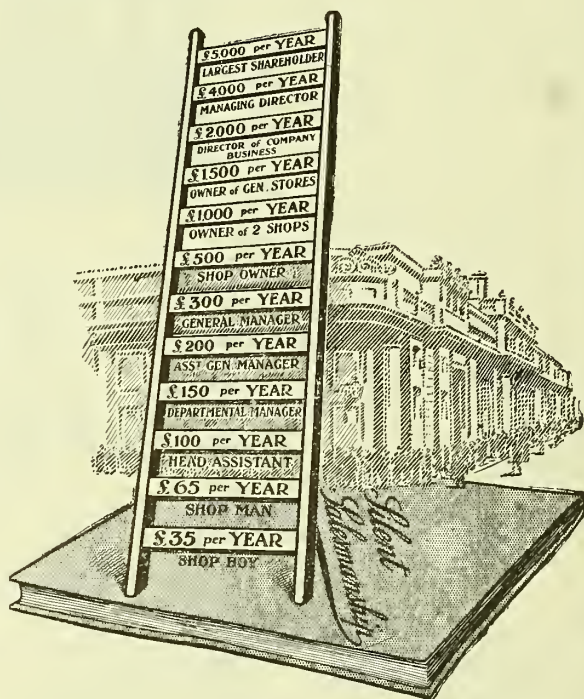
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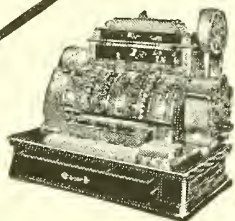
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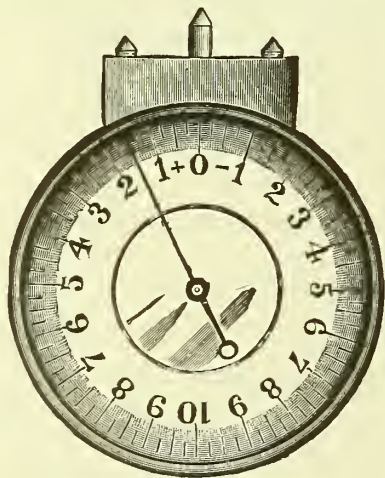


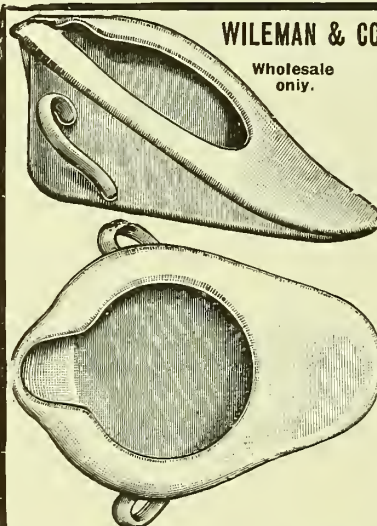
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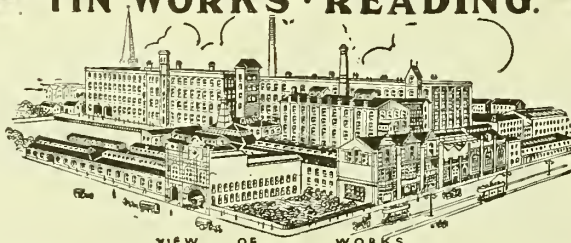
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“SEMREH” CAPS are made to fit

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ANY SHAPE, ANY SIZE, ANY NECK, ANY BOTTLE.

**YOU DO NOT HAVE TO BUY YOUR BOTTLES
TO FIT “SEMREH” CAPS**



**— WET —
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**APPLIED
IN 3 SECONDS
WITHOUT TOOLS:
As it dries it fixes
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BUY “SEMREH” CAPS

—they are quite reasonable in price
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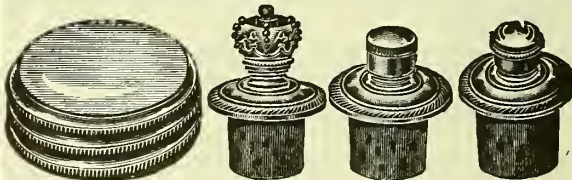
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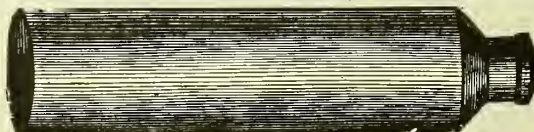
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The International Laboratories of 62 Oxford Street, London, W., Manufacturers of the famous PARMINT recipe, beg to announce that commencing with October 1st they will start their Winter Advertising Campaign, using all the leading daily and weekly publications in England, Ireland, Scotland and Wales.

They earnestly advise all chemists to examine their stock of PARMINT, and if not well supplied to place their order with their Wholesale House at once. No chemist can afford to be caught short of stock.

PARMINT was the first preparation ever offered to the public in convenient form for mixing at home. It is the old original recipe which through Trade Mark and Copyright has defied imitation. It is a combination of essential oils which can be made into an effective cough or lung tonic by simply adding to it half a pint of ordinary sugar syrup.

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*Vittel Spa has many
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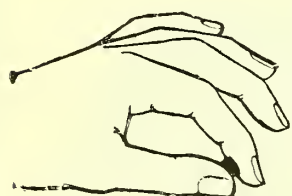
The Chemists' & Druggists' Diary, 1913

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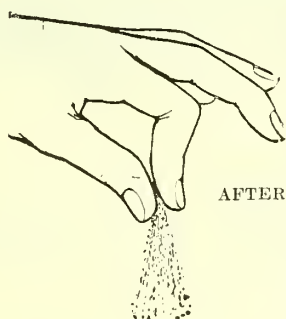
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BEFORE

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Let us quote for your private formulæ in 'PULVERETTES.'



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Adeps Lanæ Hydros., B.J.D. 10d. „ „

Adeps Lanæ Anhydros. B.J.D. 1/1 „ „

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„ „ „ „ Specimen boxes, 28/0 per gross

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„ „ Pine Tar Soap „ „ „ 6/6 tabs.

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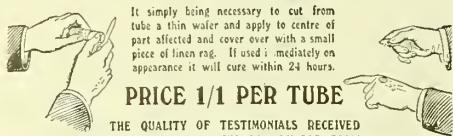
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A CERTAIN CURE FOR CHILBLAINS
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THE QUALITY OF TESTIMONIALS RECEIVED
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RETAIL P.A.T.A. 1/1, 9/- doz.

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WITH EVERY FIRST ORDER FOR ONE DOZEN OR MORE WE GIVE HALF DOZEN FREE AS BONUS IN CONSIDERATION OF 500 LEAFLETS BEING DISTRIBUTED TO HOUSE HOLDERS.

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OLD SWAN LANE, LONDON, E.C.



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and of
British Pharmacists throughout the Empire.
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IN FULL SWING.

The importance of publicity in the recognised business reference-book for the drug-trade the world over is well recognised by astute advertisers. That is why firms who have chemists' goods to sell are already making sure of advertising space in

The Chemists' and Druggists' Diary, 1913.

The first consignment of Diaries for 1913 must be on the high seas early in November in order that *C. & D.* subscribers in far-off countries may not be disappointed. The Publisher makes it a rule to keep faith with them, so that their Diaries may be delivered by January 1. Intending advertisers can help by sending their requirements at once to The Publisher, THE CHEMIST AND DRUGGIST, 42 Cannon Street, London, E.C.

SUMMARY OF THIS ISSUE.

The more notable items only are dealt with.

C. & D. Diary, 1913.

Subscribers who desire to secure exemption from stamp-duty for any medicinal preparations on the ground that they are known, admitted, and approved remedies should send us the formulas for publication in the *C. & D. Diary*, 1913, now in preparation.

Applied Chemistry.

The report by our special representative of the work done by the Pharmaceutical Chemistry Section of the International Congress is concluded in this issue (p. 75).

Particulars are also given of a brilliant banquet which was given in the Waldorf-Astoria Hotel, and of the final General Sessions of the Congress, at which preliminary arrangements were made for the next Congress in St. Petersburg (p. 78).

National Insurance Act.

The Commissioners have issued a special statement regarding insurance of apprentices, which touches several difficulties that concern chemists (p. 60).

The dispensing arrangements have still to be settled, and we indicate in the same article some of the considerations, administrative and statutory, bearing upon it (p. 72).

The draft regulations for administration of medical benefit have not been published officially, but it is felt by those who have seen them that they will go far to solve the doctors' difficulty (p. 72).

The Pharmaceutical Standing Committee had an urgent meeting in London on Monday evening, but the official report throws no light upon the matter (p. 60). Bradford chemists voice the feeling of uncertainty among the rank and file (p. 68).

The position of dispensing in Ireland is attracting attention in view of the fact that medical benefit may in the future be extended to that country (p. 60).

Articles and Communications.

A note on the examination of Shu-Yu oil is given on p. 74.

The treatment of the common diseases of parrots is described on p. 81.

The question of drug-culture is to be considered at a meeting in the London Chamber of Commerce (p. 74).

We resume the prescription-reading problems which have been suspended during the summer months (p. 81).

Further regulations respecting the sale of morphine, opium, and other narcotics in India are being promoted (p. 73).

The question of whether it is better to be an assistant in a large or small business is still exercising our correspondents (pp. 71 and 87).

The merits of sodium sulphite and acid sulphite in the estimation of essential-oil aldehydes are discussed by Messrs. C. A. Hill and T. T. Cocking (p. 86).

News of the Week.

Radium valued at 100% was at Birmingham thrown into a fire, and efforts are now being made to recover it (p. 58).

A pharmaceutical chemist has been fined 30%, and costs, for selling samples of proprietary pills without stamping them (p. 62).

The report of the Kensington Borough Council refers to the attempt to prevent the use of a small quantity of salicylic acid as a preservative of lime-juice (p. 58).

French pharmacists are often prosecuted for keeping in stock galenicals of other strengths than those ordered in the present Codex. A way out of this is offered by an official circular issued this week (*Col. Supp.*).

Trade and Market Matters.

With a rather better business tone, the following changes have occurred: *Higher*, antimony, chloroform, French e.p. glycerin, American peppermint oil, and High-dried rhubarb. *Firmer*, star-anise oil, English castor oil, Japan wax, palm oil. *Easier*, Japanese refined camphor, Sudan acacia, mace, cod-liver oil, and ammonia sulphate (p. 82).

ENGLISH AND WELSH NEWS.

When sending newspapers to the Editor please mark the items of news to which you desire to call his attention.

Brevities.

The Devon County Council have renewed for twelve months six poison-licences and have granted three additional licences.

The Leeds police are inveighing against the sale of "brimstone and potash" to boys for use as detonators. They allege that the chemicals are purchased in half-pennyworths from local chemists.

A large plate-glass window in front of the premises of Mr. R. Lord Gifford, J.P., Ph.C., Blackburn, was broken on September 21 by a man being pushed through it in the course of an argument with a companion.

Mr. John Henry Thursfield and Mr. John F. Thursfield, chemists and druggists, Rockingham Road, Kettering, were among the objectors who were ordered by the local Bench on September 18 to pay the educational portion of the poor-rate.

Mrs. Rowsell, wife of Mr. P. F. Rowsell, J.P., F.C.S., gave a large garden-party on September 19 at Nutbrook, Withycombe, Exmouth, to meet the Lady Swaythling and Lady Harcourt, and to hear an address from Mr. W. S. Glyn-Jones, M.P.

Smoke was seen issuing from the windows of the premises of Messrs. C. A. Critchley & Co., chemists, King William Street, Blackburn, in the early hours of the morning of September 25. The fire brigade forced an entrance and found a fire had broken out in the basement, but this was extinguished before much damage had been done.

The Secretary of the Secret Commissions and Bribery Prevention League, Incorporated, 3 Oxford Court, Cannon Street, London, E.C., writes that the provisions of the Prevention of Corruption Act are still unfamiliar to many people, and many manufacturing chemists appear to be equally unaware of the existence of the League, which was formed to enforce the Act, to advise, warn, and if necessary, to prosecute. The Secretary offers to give information on these matters to any of our readers.

Birmingham Notes.

Oldbury is to have concerts and a public subscription-list to provide necessitous school children with spectacles.

The "Birmingham Weekly Post" published Sir James Sawyer's inhalation-powder for asthma in its medical article last Saturday.

A meeting of the Midland Association's Council was held on September 25 to appoint a secretary and prepare the sessional programme.

Scarlet-fever is just now showing itself in a mild form in Birmingham, 600 cases being under treatment at the City Isolation Hospital. It has acted as a stimulus to camphor-bags and other prophylactics.

The General Purposes Committee has decided to recommend the City Council to make exemption orders under the Shops Act in respect to grocers and photographers. Why were not the pharmacists included?

The British Hospital Association held its annual conference in Birmingham this year, and the general conclusions arrived at were: That hospitals are abused, and that the voluntary system should not be dispensed with.

Now that the holidays are finished, and we are having a spell of fine weather, business has brightened considerably. With a busy city pharmacy is reaping a small advantage. The chief trouble just now is the dearth of apprentice lads.

Dr. Robert Sandby, who for thirty-six years has been connected with the General Hospital, was recently the recipient of several gifts in recognition of his services to the institution. He is very well known to pharmacists, by whom he is greatly esteemed.

Some time ago a Birmingham bank clerk secured a jury's verdict in the County Court for 20*l.* damages against a firm of hairdressers of the city, for alleged

negligence, which he said resulted in his contracting impetigo. The case was adjourned for legal arguments to be heard, and Judge Ruegg, K.C., afterwards reserved his decision, which was given on September 24. The Judge found that the damages were irrecoverable in law, and gave judgment for the defendants, with costs.

An applicator containing on its surface about five milligrams of radium, which was loaned to a local physician by Messrs. Southall Bros. & Barclay, Ltd., was inadvertently thrown into a fire with some waste bandages by a surgery attendant. Mr. E. C. Bennison, the firm's radium expert, advised collection of the ashes, and it is proposed to recover as much of the radium as possible in the company's own laboratories. The "Daily Graphic" of September 24 has on its first page a portrait of Mr. W. F. Southall sitting alongside a cardboard box containing about 2 lb. of ashes with which the 100*l.* worth of radium is admixed.

Manchester Notes.

The bright and sunny weather of the past week has livened up the sale of photographic goods, even to selling cameras. The growth of the semi-professional has led to largely augmented sales of sensitised postcards, many photographic chemists now making a leading line of their own brand, selling them at 2*s.* 3*d.* a hundred and in packets of twenty-five for 9*d.* "What a difference to the old prices," remarks our correspondent.

A destructive fire occurred in the afternoon of September 23 at the works of Messrs. Hough, Hoseason & Co., wholesale druggists, Holland Street, Pendleton, Manchester. A one-storey building, about 50 yards long by 40 yards wide, comprising stock-room, tablet-room, wet



Photo]

AFTER THE FIRE.

[Cleworth.

department, and office, was gutted, the steam laboratory some distance away being untouched. The books were also saved, and the company expect to be able to fill orders as usual. The outbreak caused considerable sensation owing to bursting of bottles and the proximity of other factories.

Sale of Food and Drugs Acts.

At Swansea last quarter one sample each of compound tincture of camphor, tincture of nux vomica, glycerin, orange-and-quinine wine, and sarsaparilla were examined and proved to be genuine.

It is pointed out in the annual report of the Kensington Borough Council for 1911 that four out of eight samples of lime-juice cordial contained 2.62 to 6.13 grains of salicylic acid per pint. As the Departmental Committee on Preservatives in Food suggested a limit of "salicylic acid in liquid food not exceeding 1 grain per pint," it was proposed to institute proceedings against a firm of large wholesale vendors, whose lime-juice cordial contained six times this amount of salicylic acid. Six medical men were approached on the subject. Of these, one, an eminent physiologist, was strongly of the opinion that lime-juice containing salicylic acid in the quantities certified would be injurious to health. A no less eminent pharmacologist and physician expressed a diametrically opposite view. The four remaining experts were also unwilling to make

any positive statement. The proposal to proceed was accordingly abandoned. The report continues: "The result or lack of result serves to illustrate the highly unsatisfactory state of the existing law as to the use of preservatives in food. The lime-juice of the vendors in this instance is distributed throughout the country, the fact that it contains salicylic acid is well known, and yet the recommendation of the Departmental Committee is ignored, and the heavy expense of conducting a highly technical test-case is left to any authority among the many hundreds concerned that may be sufficiently altruistic to settle an issue which is not local, and which should therefore be determined by a Government Department in the interests of the whole community."

Guardians' Doings.

Mr. George Bisley, chemist and druggist, has been appointed temporary dispenser at the Bermondsey Infirmary at a salary of 3*l.* 3*s.* a week. The appointment has received the sanction of the Local Government Board.

The Ledbury Guardians have received a letter from the dispenser, Mr. Dillon, resigning his appointment owing to paralysis. The question of appointing a successor or having medicines dispensed by local chemists was referred to the House Committee. The committee were also instructed to report on Mr. Dillon's superannuation.

The Southwark Guardians considered the report of Dr. Bruce, medical superintendent at the infirmary, that of the samples of waterproof sheeting, the one submitted by Messrs. Anderson, Anderson & Anderson, Ltd., was the best, being of very fair quality. The price quoted was 5*s.* a yard, and as the estimated quantity required is about 500 yards, the expenditure would be more than allowed by the Local Government Board without their consent, unless fresh advertisements are issued. The Board decided to apply for the necessary sanction.

Contracts.

St. Albans Guardians.—Corbyn, Stacey & Co., Ltd., for drugs.

Holborn Guardians.—Manners & Hopkinson for a supply of drugs.

Smallburgh Guardians.—Mr. A. E. Beeston, chemist, Norwich, for drugs.

Blean Guardians.—Mr. A. Landier, Ph.C., Canterbury, for the drug supply.

Chelmsford Guardians.—Mr. H. Jenkins, chemist, Braintree, for drugs.

Chard Guardians.—Mr. A. W. Sanders, chemist, Chard, for the supply of drugs, etc.

Leek Guardians.—Mr. G. H. Cousins, chemist, Leek, appointed druggist for a year.

Brecon Guardians.—Mr. F. L. Stanton, chemist, Brecon, for the supply of drugs.

Hollingbourne Guardians.—Mr. F. J. Oliver, chemist, Maidstone, for the supply of drugs.

York Guardians.—Mr. Fredk. Newey, chemist, Layerthorpe, York, for disinfectants, etc.

Thorne (Yorks) Guardians.—Mr. R. Read, chemist, Thorne, appointed druggist for a year.

Richmond Guardians.—Burgoyne, Burbidges & Co., for the supply of drugs, etc., at 24*l.* 11*s.*

Brentford Guardians.—Warkley & Co., for a six months' supply of waterproof sheeting at 55*l.* 8*s.* 4*d.*

Swindon and District Hospital Board.—Williams & Co., Swindon, appointed chemists for six months.

Stafford Guardians.—Messrs. J. & H. Averill, chemists, Stafford, and Boots, Ltd., for the supply of drugs.

Brentford Urban District Council.—Mr. C. Humble, Brentford, for one cask of disinfecting-fluid at 3*s.* 7*d.* per gal.

Ramsbottom Urban Council.—Mr. J. W. Bracewell, chemist, Ramsbottom, for the year's supply of disinfectants.

High Peak (New Mills) Isolation Hospital.—Mr. J. T. Gray and Mr. J. W. Cooke, chemists, Chapel-en-le-Frith, for drugs, etc.

Hartley Wintney Union.—Mr. J. McKnight, chemist,

Fleet, for the six months' supply of drugs, surgical-dressings, disinfectants, etc.

Haslingden Union.—For half-yearly supplies: Haworth Bros., Accrington, for nursing oxo; T. A. Ward & Co., Blackburn, for drugs and dressings.

Wolverhampton Union.—Corbyn, Stacey & Co., Ltd., for the supply of drugs to the Workhouse and to the Cottage Homes at 59*l.* 11*s.* 4*d.* for quantity and for the Out-relief Dispensary at 34*l.* 14*s.* 5*d.* for quantity; Robinson & Sons, Ltd., to the Workhouse, Cottage Homes, and Out-relief Dispensary, for the supply of surgical dressings at 71*l.* 7*s.* 8*d.* for quantity; the "Sanitas" Co., Ltd., for carbolic soft soap, at 1*l.* 1*s.* per cwt.

From Various Courts.

At Ipswich on September 19, Chas. Brown and Thos. Field were each sentenced to two months' hard labour for stealing goods, value 2*l.* 1*s.*, from their employers, Messrs. Grimwade, Ridley & Co., chemists, 47 Princes Street, Ipswich. A small tradesman, named Fredk. Parmenter, was committed for trial on a charge of receiving the stolen goods.

At Braintree on September 25, John Edwards, labourer, Braintree, was sentenced to seven days' hard labour for stealing a box of plantoids from the pharmacy of Mr. C. B. Saunders, chemist and druggist, 50 High Street, Braintree. It was stated that Edwards gave another man two of the tablets which were said to be good for indigestion. The man became drowsy after swallowing them, and slept for eight hours.

SCOTTISH NEWS.

When sending newspapers to the Editor please mark the items of news to which you desire to call his attention.

Brevities.

One of the large photographs of the B.P.C. excursionists at Melrose was displayed in an Edinburgh chemist's window the other day, and served the useful purpose of attracting quite a number of passers-by.

No further cases of smallpox have occurred in Kirkcaldy, and the seven patients who are in the hospital are reported to be progressing satisfactorily. There have been three deaths since the outbreak started.

Glasgow and the West.

A movement is on foot among the members of the Mid-Lanark Pharmacists' Association to stop the unremunerative practice of club-dispensing so prevalent in the "Iron County."

That Glasgow's rising generation is poetic in the extreme goes without saying. This week's request from a local chemist was: "2*d.* worth of *Allan Water*." Being Sunday, the chemist rightly concluded and supplied "lavender-water."

At the annual meeting of the Glasgow Incorporated trades, ex-Provost David Perry, manufacturing chemist, was elected collector to the Incorporation of Dyers, and acted as croupier at the dinner, having as guests Lord Inverclyde, the Lord Advocate, and several M.P.s.

Sir John Stirling Maxwell has written to the Lord Provost with reference to Glasgow's Highland estate "Ardkinglass," suggesting that a portion might be used as an experimental botanic garden. The proposal is receiving the consideration of the Council.

Mystery surrounds the death of a Glasgow working jeweller named David F. Turnbull, who was found in a dying condition in his shop beside a safe which had been blown open with explosives. Several burglars' tools and a tin of potassium ferrocyanide were found close by. A *post-mortem* examination has revealed the fact that Turnbull, who had a small wound on his forehead, died from the effects of poison.

The result of the Glasgow Corporation half-day closing order, which has just been made known, shows Tuesday to be the unanimous verdict. The report states that chemists and druggists, although exempted by the Act, have nevertheless come under it voluntarily. A South Side shopkeeper with a weakness for humour now displays a notice—viz.: "To oblige the Government, we close every Tuesday at 1 P.M."

IRISH NEWS.

When sending newspapers to the Editor please mark the items of news to which you desire to call his attention.

Brevities.

The "Irish Gazette" notifies that the names of Byrne's Medical Hall, Ltd., and Cooke's Medical Hall, Ltd., have been struck off the register of companies.

The Local Government Board has approved of the appointment of Mr. R. F. Blake, Belfast, as analyst to the Union of Antrim, at a salary of 20*l.* per annum.

Mr. Moss Jay, formerly managing director of Ozonia, Ltd., Dublin, Pictorettes (Liverpool) Ltd., and the Palace of Varieties (Tonypandy), Ltd., whose accounts showed liabilities of 14,701*l.* and assets of 4,377*l.*, submitted to his public examination at the London Bankruptcy Court on September 24.

At the annual meeting of the Central Camera Club in Belfast on September 23, Mr. W. J. Rankin, jun., Ph.C., Waring Street, was re-elected hon. secretary, and Mr. D. W. Elliott, Ph.C., was appointed a vice-president. The annual report mentioned that Mr. Rankin had won the second prize in the special competition, and that Burroughs Wellcome & Co., London, had given a set of "Tabloid" photographic chemicals as a prize in one of the competitions.

At Belfast Recorder's Court on September 20, the claim was heard of Mr. Matthew McDonald, Ph.C., 122 Donegall Street, for 15*l.* compensation for a plate-glass window broken during recent rioting; the Recorder awarded 10*l.* 7*s.* 3*d.* Mr. John B. Robinson, Ph.C., Antrim Road, who claimed 6*l.* for a broken window, was awarded 3*l.* 8*s.* Dr. Jas. Blewitt claimed 6*l.* for the breaking of a window in his Medical Hall at 114 Newtownards Road, and was allowed 4*l.* 13*s.* 11*d.*

Looking Ahead.

In view of the possible extension to Ireland of the medical benefit of the National Insurance Act considerable interest is being taken in the movements of the Irish friendly societies and also of the endeavour of the medical profession to raise their standard of remuneration. From a letter in the Dublin "Evening Telegraph" from the General Secretary of the Ancient Order of Hibernians, it appears that the friendly societies pay a capitation-fee of 4*s.* per annum for each member, which carries with it the right to medical attendance and medicine not only for the member but for his family as well. The medical profession in Ireland, taking the cue from the doctors in Great Britain, are making a movement towards better pay for friendly-society work. The doctors require 2*s.* 6*d.* as a fee for the examination of candidates for societies, 8*s.* 6*d.* as capitation-fee, exclusive of the supply of medicine, and fix 12*s.* as the charge for medical attendance on the member and his dependants. The interest to chemists arises from the fact that the supply of medicine is included in the fee at present paid by friendly societies. If the medical benefit of the National Insurance Act were to be extended to Ireland it might happen, therefore, that with the largely increased scope of operation of the Irish societies the supply of medicines might drift into medical hands and thus be detrimental to the unique position of Irish pharmacists as dispensers.

QUININE IN THE UNITED STATES.—While quinine has long been a staple product of importation into the United States (says a review by the U.S. Department of Commerce of Labour), no marked growth in its imports has occurred in the last quarter of a century. In 1882, for example, over 5 million lb. of cinchona-bark was imported; in 1892, 3½ million lb.; in 1902, 3¾ million lb.; and in 1912 the imports will probably be about 3½ million lb. In 1882 the imports of quinine and the various salts of quinine amounted to 795,000 oz.; in 1884, 1½ million oz.; in 1892, 2½ million oz.; in 1902, 2½ million oz.; in 1906, 4½ million oz.; and in 1911, 3¼ million oz.; while the rate of importation in the nine months of the current fiscal year for which figures are at hand point to a total of about 3 million oz. in the twelve months ending with June.

National Health Insurance.

MEETING OF PHARMACEUTICAL COMMITTEES.

A joint meeting of the members of the English, Welsh, and Scottish National Insurance Committees was held at 17 Bloomsbury Square, London, W.C., on Monday, September 23, Mr. P. F. Rowsell, J.P., presiding. There were present: Messrs. R. H. Bell, W. T. Hind, J. L. Jenkins, W. J. Allen, Evan Jones, Leo. Joseph, J. C. Pentney, A. Arnott, Geo. H. Harmer, G. V. C. Last, Alfred Gratte, A. Enoch, W. A. Wynne, J. H. Thompson, J. T. Davies, P. J. Ashfield, Thos. Guthrie, R. Gordon Drummond, Samuel Lawrence, J. W. Adamson, J. P. Gilmour, David Gilmour, Jas. Lennox, R. W. Lindsey, C. G. Caldecott, M. W. Lloyd, J. Lloyd Jones, A. Ll. Francis, H. Kemp, O. A. Clark, A. Hagon, A. S. Campkin, W. A. Bell, T. W. Townley, John J. Forbes, R. Feaver Clarke, Walter Lloyd, E. P. Wynne, W. J. Hallett, Chas. Simpson, J. Poole, E. T. Neathercoat, J. H. Cuff, F. J. Gibson, E. S. Waring, E. White, A. L. Milne, J. R. Hill, J. F. Harrington, W. Lyon, Jas. Pell, Wm. Cox, F. W. M. Bennett, Wm. Giles, W. G. McNab, and the Secretary (Mr. W. J. Uglov Woolcock). Mr. W. S. Glyn-Jones, Parliamentary Secretary of the Pharmaceutical Society, and Mr. A. J. Chater, Assistant Secretary of the Pharmaceutical Society, were also present. The meeting considered the report from the pharmaceutical members of the several advisory committees, and discussed with them the course to be taken in connection with the negotiations with the various authorities for the provision of the pharmaceutical service under the Insurance Act.

CHEMISTS' FRIENDLY SOCIETY.

The prospectus issued by this approved Society shows that it consists of three sections—viz., State, Non-State, and Honorary. In the State section male and female assistants and apprentices (but not unskilled workers) employed in the retail and wholesale drug-trade or sundries trades are eligible, as well as persons employed by analysts, dentists, and opticians, or engaged in the sale of surgical appliances or photographic goods. The contributions and benefits are those in the schedules appended to the National Insurance Act. The Non-State section is at present open to males only, between the ages of sixteen and forty-five, who wish to supplement their benefits under the State scheme, and for others who wish to make provision for sickness, accident, and death. The table of quarterly payments (which cease at seventy) range from 4*s.* 6*d.* at sixteen to 10*s.* 10*d.* at forty-five. The benefits include sickness and disablement benefit (10*s.* per week for twenty-six weeks, 6*s.* per week for a further twenty-six weeks, and 4*s.* per week for remainder of illness), life assurance (5*l.*), and pension after seventy (5*l.* per annum). "Double" benefits can be secured by doubling the payments. In the Honorary section a payment of two guineas secures a life-membership for those interested in the scheme who are not eligible for State or Non-State insurance. Honorary members are eligible for election to the board of directors or as trustees or arbiters. They incur no liabilities for the Society's commitments. The funds accumulated in this section are kept apart, and after 500*l.* has been accumulated, the revenue accruing therefrom is to be expended in grants to widows, orphans, or dependents of honorary members.

APPRENTICES.

The National Health Insurance Commissioners point out in Form X. 66 (revised) that where money payment of any kind is made to an apprentice in respect of his employment, the apprentice is required to be insured. It does not matter whether the money payment is in the nature of fixed wages paid at stated intervals or not; but there must be some sort of regularity or continuity in the payment, or it must, at any rate, bear some relation to the period of employment (or some considerable portion of it) as a whole, as distinguished from casual payments at particular times or in connection with some particular piece of work. Thus an uncertain sum derived from commissions on sales and paid (even though at irregular

intervals) throughout the whole year would be a "money payment"; but payments in the nature of gratuities which the employer is not legally bound to make under the terms of any contract expressed or implied are not sufficient to make the apprentice insurable, such as a bonus at the end of the year, an allowance of pocket-money, or a commission paid during a summer sale. If, however, as is sometimes the case, the payment of the bonus, or pocket-money, or of such a commission, is a term of the contract between the apprentice and his employer, this is a "money payment," and the apprentice must be insured. In some cases the payment may take the form of the return in instalments of a premium paid at the beginning of the apprenticeship; and in such circumstances, if the instalments are repaid to the apprentice himself or to some other person on his behalf, he is insurable; though it would be otherwise if the instalments were repaid to the person who originally provided the premium for his own use and benefit. An apprentice to whom the Act applies, as above, if he can prove that he is either (a) in receipt of an income of 26*l.* a year or upwards not dependent upon his personal exertions, or (b) ordinarily and mainly dependent for his livelihood upon some other person, may claim a certificate of exemption under Section 2 of the Act. The grant of such a certificate will not, however, relieve the employer from the obligation to pay his own portion of the contributions in respect of the apprentice.

The Shops Act, 1912.

The following are brief particulars of recent local arrangements:

Aberdeen.—A ballot is to be taken in connection with the proposed closing order for chemists.

Bath.—It is pointed out to us by a local correspondent that our paragraph in the last issue is premature. The Sanitary Committee is recommending the local Council to seal a closing order for chemists at their next meeting. The early-closing day is Thursday.

Berwick-on-Tweed.—The Town Council has issued an order for chemists, etc., to close on Thursdays at 1.30 p.m. throughout the year.

Glasgow.—Tuesday is the weekly half-holiday favoured by a large majority of chemists, and the Corporation has accordingly granted a closing order for that day.

Morecambe.—The Corporation has made a closing order for chemists, etc., for Wednesdays at 1 p.m.

Newport Mon.—The Town Council on September 23 issued a draft closing order for chemists, etc., the scheduled hours of closing being Mondays, Tuesdays, and Wednesdays, 8 p.m.; Thursdays, 1 p.m.; Fridays, 9 p.m.; and Saturdays, 11 p.m. If the half-day closing be observed on Saturdays, the closing hour on Thursdays will be 8 p.m.

Portsmouth.—The Borough Council has issued voting papers to occupiers of shops for the sale of medicines and medical and surgical appliances regarding the proposal to make a closing order for Wednesdays at one o'clock.

West Ham.—Of the fifty-three separate occupiers of sixty-two chemists' shops in West Ham, forty-eight have signed a petition for a closing order. The Public Health Committee of the Town Council have decided to comply with the request, and fix Thursdays at 1 p.m. for half-day closing of pharmacies.

BASRA (PERSIAN GULF) EXPORTS.—Among the exports in 1911 were: Galls, 11,369 bags, against 7,616 bags in 1910 (to U.K.); opium, 1,175 cases, against 1,253 cases in 1910 (to India and U.K.); liquorice, 44,530 bales, against 47,476 bales in 1910 (to U.S.A., France, and U.K.); "gums," 6,884 packages, against 4,342 packages in 1910 (to U.K., France, and Germany).

AMERICAN CONSULS in various parts of the world were recently instructed by the Washington authorities to find out all about the demand for barbers' furniture and supplies; these including safety razors, hair-tonics, cosmetics, hair-brushes, etc. In Spain, America is represented only by one well-known dental cream and a widely advertised stick shaving-soap, and a report from China states that safety razors have been on the market for at least ten years and their sale to-day is small, the demand being limited almost entirely to Americans and Europeans.

LEGAL REPORTS.

TRADE LAW.

Canvasser or Pedlar?—At Wednesbury on September 24, the South Staffordshire Stipendiary Magistrate (Mr. N. C. A. Neville) decided that canvassing for orders for tea and selling the same from door to door requires a licence, and he imposed a fine of 5*s.*, and costs, on a woman who was travelling for a tea company. The Magistrate said: "It might have been argued that tea came within the word 'virtuals' in the Act, but in his opinion virtuals means something to eat in a state in which it is sold, and they could not eat tea without mixing it with something else." He agreed to state a case for a higher court if desired.

Kodak and Brownie.—In the Vacation Court on September 25, Mr. Kerly mentioned to Mr. Justice Avory the case of Kodak, Ltd., *v.* Holmes, which was an application for an injunction to restrain the use of the names "Brownie," "Kodak," etc. Counsel stated that he appeared for the plaintiffs, and he was instructed that the defendant had agreed to the order in the terms of the notice of motion, and to treat the motion as the trial, and he had consented to pay an agreed sum to cover damages and costs. The defendant's solicitor informed his Lordship that his client had agreed to those terms. An order was made accordingly.

Barton v. Hertz.—In the City of London Court, before Judge Rentoul, K.C., on September 24, the case of Barton *v.* Hertz, which was partially before the Court last week and mentioned in the columns of the *C. & D.*, was disposed of. P. C. Barton & Co., Ltd., advertising agents, Aldwych, sought to have Mr. Jacob Hertz, drug-merchant, trading as Hertz & Co., 9 Mincing Lane, E.C., committed for the non-payment of 22*l.* 17*s.* 1*d.* The case had been adjourned for inquiries. Plaintiffs' representative now said that he had been to the defendant's house at Sutton to make the inquiries. A representative of the defendant attended the court, and produced a medical certificate showing that the defendant had been under a doctor's care for some time past and was not now able to attend the court.—Mr. Stephen Jones, plaintiffs' solicitor, said that they had had seven or eight judgment summonses against the defendant, and every time the same sort of thing took place.—Judge Rentoul asked if the defendant sent a medical certificate every time.—Mr. Jones replied that he did.—Judge Rentoul observed that the certificate was signed by a man who appeared to be duly qualified and who was on the telephone and that sort of thing.—Mr. Jones said that when the case was first before the Court the same thing happened, and it would be the same until eternity.—Judge Rentoul said in that court they were in the habit of accepting letters from a doctor, because the cases generally involved a small amount of money, and the expense of bringing a medical man to the court would be considerable. He generally treated such letters as if the doctor were present.—Mr. Jones said he could give very strong evidence of the defendant's means.—Judge Rentoul observed that statements made and proof were vastly different sometimes. There was a vast gap between them.—Mr. Jones knew that, but he asked the Judge to hear the evidence.—Plaintiffs' representative said that since the case was before the Court in the previous week he had been to Sutton and seen the defendant's residence. He did not see Mr. Hertz, but he saw the servant at the house. He did not knock at the door, but the telephone was on at the house. The rent was about 70*l.* or 80*l.* a year. It was a large detached house, and was ten or fifteen minutes' walk from the station. Defendant had three rooms at his office, and the debt was for advertising.—Judge Rentoul could not understand a man like the defendant letting the case come into court. Defendant had paid 14*l.*, and there remained only 8*l.* due. He was wondering at a man with three rooms in Mincing Lane and a telephone on at his house.—Plaintiffs' representative (interjecting): And he usually has a cab from the station to the door.—Judge Rentoul asked if the clerk who had handed in the medical certificate had anything to say.—Defendant's clerk said he had simply to produce the document.—Mr. Jones asked him if what had been stated was not true.—Defendant's clerk replied that it was nothing to do with him.—Plaintiffs' representative added that the defendant was in the City on Monday. He did not see him, but he rung up the telephone at his house, and the female who answered told him so.—Judge Rentoul said he would make an order of committal against the defendant. He was not casting the least aspersion on the doctor's certificate.—Defendant's representative: I am from Hertz & Co.—Judge Rentoul asked if the young man knew the doctor who had given the certificate, and he said he did not. The

Judge said that the doctor might be deceived, of course. Apart from whether the defendant was well or ill, or able to come or not, he thought there was enough evidence on which to make an order of committal. The order would be for payment of 2*l.* a month, with the alternative of committal for eight days. The first payment would not be due for a month, which would give Mr. Hertz time to come to the court if he liked.

Medicine-stamp Acts, 1804 and 1812.

SELLING UNSTAMPED SAMPLES OF DE WITT'S PILLS.

At the Bradford West Riding Police Court on September 19, Henry J. Pratt, Ph.C., 1 Westgate, Cleckheaton, was summoned for selling on July 20, 22, and 23 dutiable medicine unstamped. Mr. A. D. Stocks, of the Solicitor's Department, Customs House, London, prosecuted on behalf of the Board of Customs and Excise, and Mr. H. M. Dawson, Bradford, appeared for the defendant.

Mr. Stocks said that he understood that Mr. Dawson was going to plead guilty to the charges made against his client, and proceeded to explain the provisions of the 1804 and 1812 Acts. As to the facts in the case he made the following statement:

On July 18 the defendant advertised in a morning journal "De Witt's Pills, 4*s.* 6*d.* packet, twelve stamps, Pratt, 1 Westgate, Cleckheaton." On July 22 a Mr. Churchill, having read the advertisement, called at the defendant's shop, and said to him, "I wish to have a packet of De Witt's kidney and bladder pills; a 4*s.* 6*d.* packet for 1*s.*, as advertised." Thereupon the defendant asked, "Have you got anywhere else to go while I put them up for you?" and the purchaser replied that he had not, but would wait for them. While waiting a woman came into the shop accompanied by another woman and asked for a packet of pills similar to those asked for by Mr. Churchill. The defendant sold her a packet and took 1*s.* for it, and to the other woman who was with the purchaser he handed one of the sample packets. This latter was one of a large number of complimentary packages of De Witt's pills which were sent out by Messrs. De Witt to shops all over the country. These complimentary packets contained exactly the same wording as on the larger packages, and it was clear from the print on the packets that the pills were liable to duty. The defendant, as a qualified chemist, must have known that. While the defendant was preparing the packet for Mr. Churchill, this gentleman saw him actually empty into one of the larger boxes two sample packets of De Witt's pills, which contained the statement on the end of each packet, "Complimentary; not to be sold." This information was put on to the sample packets, or otherwise the vendor would be liable under the Act in respect of them. As further evidence of the sale of the pills, he asked the Bench to observe two pieces of card which were in the box when purchased, and which they would find to be two portions of the inner flaps of one of the sample packets of De Witt's pills.

[Mr. Dawson said that the Bench had already been informed that on behalf of his client he was going to plead guilty to the three summonses, and that he had sold an article which ought to have been stamped, and he did not know whether it was entirely necessary to produce all this evidence.]

Mr. Stocks pointed out that the Bench considered this to be a deliberate case of fraud, and not a usual case under the Act. Proceeding, he said that the pills desired by Mr. Churchill were eventually enclosed in a packet and wrapped up in a leaflet (produced), sealed, and sold to him. After some further conversation the purchaser left the shop, but he returned and asked the defendant if he was sure that the pills with which he had been supplied were De Witt's. It was necessary to mention this fact because it was needed to prove that the pills sold were De Witt's. The defendant assured Mr. Churchill that they were De Witt's pills, and the purchaser then left the shop. On July 22 a man named Foster went to the defendant's shop and asked for a 4*s.* 6*d.* bottle of De Witt's pills for 1*s.*, according to the advertisement. In this instance the sale was slightly different from that in the case of Mr. Churchill, for Mr. Foster received the pills from the defendant in a bottle wrapped up in a similar pamphlet to the one in which Mr. Churchill's purchase was contained. The bottle of pills sold to Mr. Foster contained nothing on the outside except the words "One three times a day." On serving Mr. Foster the defendant remarked, "They are a new sample of the pills." The phial was then wrapped up, and the purchaser left the shop. Both Mr. Churchill and Mr. Foster had asked specially for De Witt's pills according to the advertisement. On the day following Mr. Foster's

purchase (July 23) another gentleman, who was an agent for the De Witt company, called at the defendant's shop, and saw a woman behind the counter, who, it was assumed, was Mrs. Pratt. He said to her, "I want a bottle of De Witt's pills; you know, a 4*s.* 6*d.* bottle for 1*s.*" She produced a small glass bottle similar to the one handed to Mr. Foster, which was wrapped up in a portion of an advertisement of Beecham's pills. She wrapped up the phial, sealed it, and handed it to this man, and it was now in the same condition as when it was sold, except that the seal had been broken. Mr. Brewster, the agent in question, handed her 2*s.*, and received 1*s.* change, and asked if these were De Witt's pills, and she said they were. He then left the shop, but returned at 6.50 p.m. the same day and saw the defendant serving customers. When the defendant was disengaged, Mr. Brewster asked for another bottle. The defendant replied, "I have not any in just now." Mr. Brewster then happened to notice on the counter some bottles containing coloured water or something of that sort. He also observed some other phials, and lifted up a couple of the bottles containing the coloured liquid, revealing four bottles of pills similar to De Witt's pills, but the phials were larger. The defendant was thereupon asked, "Have not you any here?" and he instantly seized the four phials and removed them out of the reach and sight of Mr. Brewster, and said "Those are not yours." Mr. Brewster said, "Have not you any at all? You have been advertising them in a newspaper or a circular." The defendant then replied, "That is my business." Mr. Brewster asked defendant if he had a copy of the newspaper in which the advertisement appeared, but defendant replied that he had not, but that if Mr. Brewster would leave his address he would forward some pills to him in a day or two. Mr. Brewster thereupon tendered 1*s.* in payment for the pills to be delivered and got a receipt. Defendant remarked, "They leave me a lot of samples. I only put the advertisement in the paper once, just to give them a start. I think they would rather pay something for them. I wish I had not taken so many; it has been a great loss to me to sell them at the price, but you have to do that to get custom." Mr. Brewster did not give the defendant his own name, and on July 25 received the following letter from the defendant with his name stamped on the envelope:

"DEAR SIR,—Sorry to say I cannot get any more pills at the same cheap rate as before from the firm I had the other parcel from. Too late, all sold out. Under the circumstances I am returning to you the 1*s.* left yesterday."

The whole matter was then brought to the notice of the Customs and Excise authorities, and on July 27 Mr. King, an official, called at the defendant's shop and made a similar request for pills to that which the other purchasers had done. Defendant asked him if he had had any before; and when the official said he had not, he was informed that the defendant had sold out all the pills. They were a bankrupt stock, and he had no more of De Witt's pills, but would have some the following week, and would sell them at the ordinary price. This statement was a deliberate falsehood, and was made up in order to get out of a difficult situation. He knew it was not a bankrupt stock at all, but he was selling complimentary packages. He (Mr. Stocks) concluded by asking the Magistrates to impose such a penalty as would prevent other people acting in a similar way to the defendant.

Mr. Dawson said that he admitted that on the three dates mentioned his client had sold packets of De Witt's pills which ought to have been stamped. His client had received twelve dozen sample boxes, but instead of giving them all away he sold some of them. He would ask the Bench to remember that this was the first time that the defendant had had any charge made against him in any police court or any other court.

Mr. Stocks said that that was not so. The defendant had been previously summoned in that very Court and the case had been withdrawn.

Mr. Dawson said that at any rate his client had not been convicted for any offence of any kind in any court. He had also been a respectable chemist for forty years and held the Major qualification. He asked the Bench to remember that although his client had erred they could take into account the defendant's previous good character, and if they inflicted a penalty, as they must do, he hoped they would make it as small as they could. The defendant felt his position acutely, and the mere fact of appearing in that Court to answer to these summonses would do him a great deal of harm in his business.

It was stated that the previous summons was on October 1, 1908, when the defendant was summoned for

exposing for sale patent medicines with no stamp charge, and that the case had been withdrawn.

The Magistrates retired to consider the case, and when they returned the Chairman (Dr. W. H. Ellis) said that the defendant would be fined 10*l.* in each of the three cases.

Mr. Stocks asked if the costs might also be allowed, because he had been put to the expense of bringing two witnesses from London.

The Chairman said that the defendant would have to pay the costs as well.

BANKRUPTCY REPORT.

Re George Arthur Hebblethwaite. Church Street, Drypool, Hull, Chemist and Druggist.—The first meeting of creditors was held in the Official Receiver's offices, Hull, on September 25. The statement of affairs showed gross liabilities 514*l.* 10*s.* 1*d.*, of which 118*l.* 17*s.* 6*d.* is expected to rank for dividend. The gross assets are 52*l.* 18*s.* 10*d.* and the net assets 45*l.* 8*s.*, leaving a deficiency of 73*l.* 9*s.* 6*d.*. The causes of failure stated by the debtor were the pulling down of many houses in the vicinity of his shop, loss of trade caused through strikes, and want of capital. The estate was left in the hands of the Official Receiver as trustee.

DEED OF ARRANGEMENT.

Swanson, Alexander James Robertson, Harborough House, 23 St. John's, Worcester, Pharmacist.—Trustee: G. W. Bull, 9 Foregate Street, Worcester. Dated, September 14; filed, September 19. Secured creditors, 115*l.*; liabilities unsecured, 678*l.*; estimated net assets, 462*l.*. The creditors include: Sangers (13*l.*); R. Hovenden & Sons, Ltd. (3*l.*); Ford, Shapland & Co. (3*l.*); Dubois & Co. (3*l.*); London Essence Co. (3*l.*); T. Merry & Co., Ltd. Birmingham (7*l.*); C. L. Moores & Co., Birmingham (3*l.*); E. Woolf, Birmingham (26*l.*); Eueryl, Ltd., Hull (3*l.*); E. H. Butler & Sons, Leicester (9*l.*); Ayrton, Saunders & Co., Ltd., Liverpool (85*l.*); Prestons Distillery Co., Liverpool (5*l.*); W. B. Cartwright, Ltd., Rawdon (3*l.*); Anderson & Virgo, Worcester (about 40*l.*).

GAZETTE.

The Bankruptcy Acts, 1883 and 1890.

RECEIVING ORDER.

MIGGE, W., Eastcheap, City, proprietary-medicine vendor, trading as the Lefciform Co.

ADJUDICATIONS.

HARRIS, W. P., Station Road, Beer Alston, chemist.
LAWSON, T. C., The Homestead, Victoria Road, Oulton Broad, late Royston House, West Bergholt, surgeon.

Private Meeting.

A MEETING of the creditors of Cyril Carver Smith, chemist and druggist, 334 Alfreton Road, Nottingham, was held on September 23, when the statement of affairs disclosed liabilities 470*l.* 17*s.* 9*d.* and assets estimated to produce 237*l.* 11*s.* 8*d.*. An offer of a composition of 6*s.* 8*d.* in the pound was made by the debtor's father, but the creditors present were not in a position to accept this without further consideration. The following are creditors: Butler & Son, Leicester (14*l.*); Dennis & Roberts, Nottingham (12*l.*); Evans Sons Lescher & Webb, Ltd., Liverpool (60*l.*); Wright, Layman & Umney, Ltd., London (12*l.*); Wyleys, Ltd., Coventry (30*l.*); and John Quilliam, Manchester (10*l.*).

AMERICAN PROPRIETARY PREPARATIONS constitute a considerable part of the medicines imported at Wuchow (China), and the market for such goods (says the American Consul at Canton) allows of a wide expansion in the future. Florida water and similar preparations and the cheaper grades of perfumery are in good demand, as are also a large variety of toilet soaps. At the present time Germany, Austria, and England supply the soap, Germany and the United States the perfumery, and Germany the aniline dyes and prepared indigo.

LIMITED COMPANIES.

New Companies Registered.

The letters P.C. mean Private Company within the meaning of the Companies Act, 1907, and R.O., Registered Office.

PORTABLE UTILITIES, LTD. (P.C.).—Capital 500*l.*, in 1*l.* shares. Objects: To carry on the business of manufacturers of and dealers in hydro-massage appliances, hydro- and other vacuum cleaners, electrical and medical instruments, etc. R.O., 26 Rosebery Avenue, London, E.C.

EASTERN COUNTIES DRUG CO., LTD. (P.C.).—Capital 1,000*l.*, in 1*l.* shares (500 preference). Objects: To carry on the business indicated by the title. The first directors and subscribers are I. B. Aspland, 34 Castle Street, Thetford, chemists' assistant; and A. Holden, 9 Station Road, Thetford, builder.

EVANS' DRUG-STORES, LTD. (P.C.).—Capital 500*l.*, in 1*l.* shares. Objects: To carry on the business of wholesale and retail chemists, druggists, drug-merchants, dealers in surgical, electrical, photographic, and scientific apparatus, instruments and requisites of all kinds, etc. The first directors are D. Evans and H. A. Evans. R.O., Liverpool Stores, Talgarth, South Wales.

ARGO MANUFACTURERS, LTD. (P.C.).—Registered in Edinburgh. Capital 100*l.*, in 2,000 shares of 1*s.* each. Objects: To carry on business as dealers, merchants, manufacturers, chemists, and to acquire patents and inventions in chemical preparations. The subscribers are W. Marshall, 3 Kinghorn Terrace, Ibrox, Glasgow; and J. H. McIlroy, 39 Cambridge Street, Glasgow. R.O., 94 Hope Street, Glasgow.

BURTON PATENTS, LTD. (P.C.).—Capital 5,000*l.*, in 1*l.* shares. Objects: To acquire interest in any patents, licences, concessions, and the like conferring right to use any invention relating to improvements in methods of and apparatus for sterilising, preserving, and aerating foods, liquids, and organic substances, and treating materials with gases generally, etc., and to adopt an agreement with H. J. Burton. R.O., 25 Victoria Street, London, S.W.

Company News.

STEPHEN SMITH & CO., LTD.—The directors have declared an interim dividend at the rate of 6 per cent. per annum on the preference shares and 10 per cent. on the ordinary shares for the half-year ending September 30, payable on October 1. The warrants will include the 1-per-cent. bonus dividend due on the preference shares out of last year's profits, making 7 per cent. per annum.

BUSINESS CHANGES.

Notes for this section sent to the Editor should be authenticated, and must not be in the nature of advertisements.

MR. C. E. MARSDEN, chemist and druggist, has relinquished his business at Stocksbridge, Sheffield.

MR. T. J. HAYTON has taken over the business of S. Cushion, chemist and druggist, High Street, Billingham, Sussex.

MR. C. A. TAYLOR has purchased the business of Messrs. J. P. Inch & Co., chemists, 178 Kennington Park Road, London, S.E., and will carry it on under the same style.

IT IS ANNOUNCED that the business of the late Mr. William Jacobs, chemist and druggist, at Woodbridge Road, Guildford, will be continued by the family under a manager.

MR. W. H. LIGHTBOWN, chemist and druggist, formerly of Tynemouth and latterly of Cork, has purchased the pharmacy of Mr. Ed. Highton, chemist and druggist, Granville Road, Blackburn.

SEYCHELLES VANILLA.—The 1911 crop of Seychelles vanilla was almost the smallest on record, being only 11 metric tons, valued at 14,880*l.* The plants were healthy, but the flowering season was utterly spoilt by unseasonable rains. The 1912 crop will be as small as that of 1911, but there should be a large yield in 1913 provided the weather is good during August and September this year. Prices have been maintained at a high level for several years, and there is no longer much dread of vanilla ousting the genuine article from popular favour. London and Paris share the market about equally.—*British Colonial Report*

BIRTHS.

BEATTIE.—At 4 Viewforth, Edinburgh, on September 14, the wife of P. R. Beattie, chemist and druggist, of a daughter.

LUKE.—At 6 Kirkgate, Leith, on September 20, the wife of Francis Luke, pharmacist, of a son.

RIDLEY.—At Burleigh House, Rothbury, Northumberland, the wife of J. Farrage Ridley, chemist and druggist, of a daughter.

MARRIAGES.

BARLEY—BACON.—At Trinity Presbyterian Church, Clapham, London, S.W., on September 17, Gerald Gordon Barley, chemist and druggist, Ipswich, to Kate Maud, eldest daughter of Mr. G. S. Bacon, Stockwell.

CROSS—BOWEN.—At the Abbey Church, Shrewsbury, recently, by the Rev. B. Blaxwell, vicar, William Gowen Cross, jun., Ph.C., only son of Alderman W. Gowen Cross, J.P., Ph.C., 70 Mardol, Shrewsbury, to Edith Lillian, eldest daughter of Mr. Bernard Bowen, Abbey Forge, Shrewsbury.

RICHARDSON—PERKS.—At St. Edmund's Church, Dudley, on September 9, by the Rev. T. J. Simcox, Percy Grayburn Richardson, Ph.C., Market Place, Dudley, to Louie Perks, also of Dudley.

DEATHS.

DAVIES.—At Garston, Liverpool, on September 15, Mr. Alfred E. Davies, J.P., aged fifty-two. Mr. Davies was formerly chemist at the Widnes works of Messrs. Muspratt, but he started as a chemical-broker on his own account at Liverpool. For the past twenty years he had been a member of the firm of Simpson, Davies & Sons, chemical-merchants, etc., Runcorn and Liverpool, of which his father was one of the founders.

EASTON.—Mr. John Easton, L.R.C.P.&S.E. and L.F.P.S.G., who died this week at St. John's Chapel, Weardale, Darlington, aged fifty-four, was a native of Moffat, where he served his apprenticeship to a chemist. He afterwards studied medicine in Edinburgh and took the triple qualification in 1895. After practising in Kilmarnock he acquired the practice in Weardale, which he carried on until his death.

FERRIER.—The death has occurred at Cairns, Queensland, of Mr. John Oliver Ferrier, F.C.S., who was believed to be a native of Edinburgh. Mr. Ferrier was for some years analytical chemist to the Colombo Commercial Co., Ceylon, and after working in various parts of the South Sea Islands, including the Sogeri Para Rubber Co., Ltd., Port Moresby, New Guinea, he settled down as proof-reader on the staff of the "Cairns Post."

GREATOREX.—On September 4, Mr. Edward John Greatorex, chemist-dentist, Banwell, Somerset, aged fifty-four.

LAKE.—At 5 Seaton Road, Trammere, on September 22, Mr. William Pinhorn Lake, after a short illness. Mr. Lake represented Mr. William Mather, of Manchester, some forty years ago, being with him a long time. He also travelled for J. Thompson, Ltd., Liverpool, and Meggeson & Co., London, making many friends in all parts of the British Isles.

PALETHORPE.—On September 7, Mr. William Palethorpe, chemist and druggist, Market Street, Bingham, Notts, aged seventy-four. Mr. Palethorpe passed the Modified examination in 1870.

THOMAS.—At 113 Florence Road, Wimbledon, Mr. Richard Thomas, recently, chemist and druggist, aged eighty-four.

WHITROW.—At 71 Upper Grosvenor Road, Tunbridge Wells, on September 17, Mr. Benjamin Whitrow, chemist and druggist. Mr. Whitrow, who qualified in 1873, com-

menced business in St. John's Road, Tunbridge Wells, in 1881. Three years later he opened the pharmacy in Mount Pleasant Road, now conducted by Mr. A. E. Hobbs, Ph.C. He retired last year owing to failing health.

WOOLLS.—At Surrey Road, Margate, on September 18, Mr. J. T. Woolls, aged seventy-four. Mr. Woolls, who was a native of Margate, formerly acted as dispenser to the late Dr. Thornton, and later was manager of one of the pharmacies of his son, Mr. Victor J. Woolls, chemist and druggist, Margate.

PERSONALITIES.

Notes for this section sent to the Editor should be authenticated, and must not be in the nature of advertisements.

MR. AND MRS. R. J. REUTER have just returned from a tour on the Continent, where they have been calling upon their relatives and old friends on the occasion of their silver wedding.

AS A RESULT of the recent examinations held at the Royal Academy of Music, London, Miss Doris West Lang, daughter of Mr. J. West Lang, Ph.C., Teviot Dale, Stockport, has obtained the Diploma of Licentiate in Pianoforte Playing.

DURING the recent visit of the King to Cambridge for the Military Manœuvres, the Mayor (Alderman A. Sidney Campkin) had the honour of dining with the King on the evening of September 18 at the invitation of the Master and Fellows of Trinity College. The Mayor was presented to his Majesty by the Master of Trinity.

MR. WILLIAM JAMES EVANS, who with Mrs. Evans gave a reception to the members of the International Congress of Applied Chemists at their beautiful riverside residence, Yattenhurst, Dobbs Ferry-on-Hudson, was formerly a familiar figure in English pharmaceutical circles, he being the special representative of Messrs. McKesson & Robbins, New York. The reception on September 12 was a brilliant affair, and the guests were conveyed by special train.

COUNCILLOR HENRY M. LLOYD, Deputy-Mayor of Merthyr and Chairman of the local Health Committee, performed the opening ceremony at the Tuberculosis Pavilion of the Mardy Isolation Hospital on September 12. The Mayor presented Councillor Lloyd with a gold key on entering the building. Mrs. Lloyd was also handed a handsome bouquet by a former grateful child-patient. At a meeting which was held after the ceremony Councillor Lloyd delivered an address on "The Evolution of the Isolation Hospital in Merthyr."

COLONEL T. DAVIES SEWELL, F.R.A.S., Clerk of the Spectacle-makers' Company, celebrated his eightieth birthday on September 21. He received many congratulations, and the Fellows of the Spectacle-makers' Company, which includes a large number of chemists, are to make him a presentation to mark their respect and esteem. Colonel Sewell, who for many years held a position in the Corporation of the City of London, has been giving his reminiscences of London life at the earlier period of his career. He was chiefly instrumental in promoting the scheme of optical education and examination which has been carried on by the S.M.C. since 1898.

THE MERCURY BARON AND THE EMPEROR.—In the course of a report on Abyssinian Concessions, by the American Vice-Consul at Adis Ababa, the following curious paragraph occurs: "Later, Count Zychia was sent here (Adis Ababa) by the house of Rothschild, and he was followed by Baron von Erlanger. They spent several months prospecting in different parts of the country, and reported large deposits of mercury in some of the provinces, but were refused a concession to develop it. After their return to Europe, Baron Rothschild came to Abyssinia with the same request, but he also was refused by Emperor Menelik. Prospectors have not been able to find the mercury since, but it is supposed to be located in the district occupied by the late Ras Tessa-mamma, which by his death will probably revert to the Crown." Concessions do not seem very profitable in Abyssinia; at least, that is the case with "beer, ostriches, and automobile concessions."

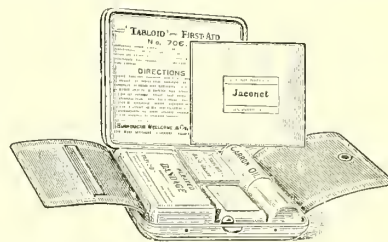
Christmas Perfumery.

MESSRS. SOUTHALL BROS. & BARCLAY, LTD., Birmingham, had reached what we thought to be the limit in artistic production of perfumery in cases specially for Christmas trade, but this year (the semi-jubilee year of their specialising in this department) they have gone one better, a result due to blending novel ideas with past experience of what most suits the public taste. These new ideas occur not only in the artistic cases in which the perfumes are packed, but also in new perfumes and new styles of bottles. As to the cases, even in the comparatively few samples which we have inspected (there are 606 distinct numbers) we find several new departures in style and finish, so that the retailer's customers to whom these are submitted will be tempted to buy through the mere fact that it is not "the same old thing" that is shown to him or her. There is, for example, an art-shaded box with a spider's web design thrown over it in gold, the edges finished in silk cord, the inside bearing a coloured engraving, and the box itself satin-lined, which is very attractive, and is offered in fifteen lines (Nos. 322 to 336), with 2-oz. bottles of perfume, the prices ranging from 27s. 6d. to 83s. per dozen. A series of two (Nos. 487 and 488) are one-bottle cases containing a magnificent 4-oz. bottle of perfume which lies in a bed of heliotrope satin, the same material lining the lid, while the outer case is covered with heliotrope ribbed-silk material embossed with gold on top in Romanesque manner. The case closes with a clasp. The bottle itself bears a tiny seal-like label, and the stopper gives a handsome finish to the solid-looking polished bottle. This style of case containing a 4-oz. bottle is 47s. 3d. per dozen, and with a 5-oz. bottle 60s. 9d. We are struck with the elegant and rich character of the series Nos. 495 to 498 (also single-bottle cases), the bottles being 4, 5, and 6-oz., according to the price. Here the lid of the case has the centre in relief, bearing a floral design in colours (the one that we have inspected is a bunch of chrysanthemums); the edges of the lid are in velvet, and the satin lining is of the same colour as the edge. The bottle contained in No. 496 is a 5-oz., and so beautifully cut that it looks worth the price of the case complete, which is 62s. 3d. per dozen. The *chef d'œuvre* of the collection is an octagonal case for presentation, No. 604, which goes in an outer of about a foot square and looks a present that it must be delightful for any lady to receive. The case is in grey plush and satin, the centre of the lid being a shallow dome upon which a bouquet of flowers is hand-painted. The plush and satin are arranged with gold braiding, so that the picture appears to rest upon a figure resembling a Maltese cross. The case contains two beautiful 4-oz. bottles of perfume, and the price per case is 14s. Another presentation case is No. 595, which is made in the palest shades of colour (*e.g.*, pink), and the beauty of the finish is almost excelled by the bottle, which has a pear-shaped stopper, the whole being cut like a diamond. This costs 92s. 3d. per dozen. It must not be supposed that Messrs. Southall Bros. & Barclay confine themselves to the higher-priced perfumes. Their object rather is to appeal to catholicity of tastes and variety of purses. The retail prices of the cases range from 6½d. per bottle upwards. They have again produced a price-list of the perfumery, in which a specification of every one of the 606 numbers is printed along with the prices and reference to the separate book of illustrations, which contains six pages of half-tone engravings of the different styles of bottles as they appear when filled and finished, besides many pages of engravings of the boxes in colour facsimile by the three-colour printing process. Retailers can show their customers the illustrations, thus supplementing, as it were, the stock of perfumes that they carry. The company also have four assortments of the perfumery in fancy cases at 20s. each, a special assortment at 2½l., and assortments of bottled perfumes without cases at 20s. and 40s. In each instance these are carriage paid, and the retail value is about double the cost. Besides the foregoing the company supply pharmacists with "own bouquets," and they continue to make a feature of "Devonshire Violets" packed for each customer with

name and address. The catalogue and book of illustrations are now in the press, and copies can be obtained from Messrs. Southall Bros. & Barclay, Ltd., on application.

Pharmacy in the Air.

THE adaptation of business methods and products to changing conditions of the times is a necessity for commercial success. That is so obvious that it scarcely needs to be said; but how often are opportunities for doing the obvious overlooked or neglected. Perhaps the wisest of us in pharmacy do not regard aviation by man as an opportunity for business in medicines and medical and surgical appliances, but a ninety-page pamphlet which came to us last week from Messrs. Burroughs Wellcome & Co., entitled "Famous Airmen and their Equipments," demonstrates that aviators are going the "Tabloid" way. In a chat with the pharmacist who looks after these matters at Snow Hill Buildings, he told us many interesting things about the first-aid that aviators need, and the peculiarities of the more famous airmen. We do not require to go into details about "Tabloid" cases, or to tell how compact they are, but it is interesting to note that No. 706 is specially designed for airmen, as it contains everything that they want for the ailments and injuries which they suffer in the air—remedies for



burns, faintness, air languor or depression, abrasions and wounds. This is the outfit carried by Beaumont, Paulhan, Védérines, Grahame-White, Weymann, Hamel, Tabuteau, Valentine, Garros, Gilbert, Hucks, and many others. Védérines had one in his pocket on his voyage from Paris to Madrid. Mr. Robert S. Fowler, an American flying man, carried his "Tabloid" case in his hip pocket, and when he fell from his machine the case saved him a fractured hip. Many fliers prefer to place the case on the machine:

Cody places his just behind his heel; Roe puts his on the fuselage of his Avro biplane, where his right hand can grip it in a flash; and Grahame-White carries his on a stay of his Blériot monoplane, as indicated by the arrow in the engraving which Messrs. Burroughs Wellcome & Co. have lent us. Five years



MR. GRAHAME-WHITE.

ago such a problem as how to provide medicaments for the air would have appeared like a madman's conundrum, but we see it is now a commercial reality. The pamphlet that we refer to is not without historic interest. Dreamers are trying to coat flying-machines with some mysterious substance which resists the earth's attraction. If ever their dreams come true, Pharmacy will indeed be very much in the air, and here "the way how" is told.

TRADE NOTES.

THE BERKEFELD FILTER CO., LTD., 121 Oxford Street, London, W., have received a large order for filters for the Egyptian State Railways.

P.A.T.A. PRICES.—The additions to the Protected List during September are: Cozzin's new formula for asthma; Dr. Gustin's Lithines; and Woolley's super-malted food. The only removal from the list is Barclay's physiotype goods.

A DENTAL PLATE-BRUSH has been designed and registered by Mr. Corder, chemist, 21 London Street, Norwich. It is constructed on the principle of a bottle-brush with a bone handle, and is efficacious in use, as it gets into all the crevices of a dental plate and cleaning it thoroughly.

THE TWENTY-FIFTH ANNIVERSARY of the foundation of the firm of Messrs. Henry W. Bush & Co., Rembrandt Works, 32, 34, and 34A Commercial Street, London, E., takes place on October 1. The firm refer to this in their advertisement in this issue, give a photograph of the staff, and draw a moral.

UNICAL HEAD-COLOGNE.—To advertise this toilet preparation Messrs. H. Bronnley & Co., Ltd., Acton Vale, London, W., are issuing postcards upon which is shown in colours a bottle of Unical head-Cologne above a sea- and sky-scape—this in allusion to the sea-breezes to be found in the bottles. The cards are supplied to chemists who order the head-Cologne.

"LONCOL" SHOWSTAND.—The London and Colonial Manufacturing Co., 9 Mildmay Chambers, Bishopsgate, London, E.C., call our attention to a special stand they are making for use on the counter of a pharmacy. It is intended for front dressing only, and provision is made for the insertion of special advertising matter at the sides. The stand can be packed into small space when not in use. The price of the "No. 1 Special" showstand for chemists' use is 15s. net, and it is sent carriage paid in the United Kingdom.

"EVANS' JOURNAL."—No. 2 of this journal, issued by Messrs. Evans Sons Lescher & Webb, Ltd., and dated October, contains an article by Mr. Harold Wyatt on Incompatibility. This consists of notes intended to serve as a practical guide to the common cases of incompatibility in pharmacy. Prescriptions are given illustrative of commonly met with incompatibilities, and these are classified as harmless and dangerous. In another article further figures are given regarding the standardisation of pharmaceutical preparations. "The Clinical Diagnosis of Syphilis" is the title of a further communication.

X-RAY WORK.—In our issue for June 15 (index folio 866) we referred to the use of barium sulphate for x-ray diagnosis of oesophageal and gastric ailments. As stated there, a specially purified product is prepared by E. Merck, Darmstadt (London office, 16 Jewry Street, E.C.). The formula given for a barium "meal" represented about 30 per cent. of barium sulphate, but this can be increased to 40 per cent. if required. The ingredient "mondamin" in the "meal" has puzzled some people, and it should be explained that this is the trade-mark which Messrs. Brown & Polson employ on the Continent to indicate their corn-flour.

CHEWING-GUMS.—The principal season for chewing-gum is now beginning, a fact of which we are reminded by the receipt of a new booklet issued by the Tutti-Frutti, Sen-Sen Co., Ltd., 56 Newcomen Street, Southwark, London, S.E. This enumerates the various kinds of chewing-gums having chicle for their basis and manufactured in this country. The chief brands are Adams' Tutti-Frutti, Adams' pepsin, Beeman's pepsin, White's Yucatan, Adams' red rose, Sen-Sen gum, and chiclets. Particulars of the packages, flavours, and prices are set forth in the booklet, which is supplied to chemists on application.

ELECTRICAL NOVELTIES.—Messrs. Millard Brothers, Ltd., 123 Houndsditch, London, E.C., have issued Catalogue No. 41, which deals with electric pocket-lamps and other seasonable specialities for the autumn and winter months.

The popularity of electric pocket-lamps is still growing, and whereas formerly the ambition of the average boy at this time of the year was to be the possessor of a bull's-eye lantern, the modern boy's idea is to buy an electric pocket-lamp. There is no more suitable purveyor of this class of goods than the chemist. This list offers plenty of choice of lamps, and some of the other novelties are of an attractive nature.

KOH-I-NOOR TOOTH-BRUSHES.—It is remarkable how "Koh-i-Noor" has come to be applied within recent years to articles which are notable for their high quality and finish. The latest to come to our notice is a brand of tooth-brushes of that name, to which the attention of retailers is called in our advertisement section this week. We have had an opportunity of inspecting the brushes, and find them to be well made of first-class material and beautifully finished. The handles are produced in such a variety of colours and shapes that it is possible for each member of a household to recognise his own by the handle, without the mark that is customary. The brushes are stocked by wholesale houses, to whom inquiry should be addressed.

H.F.T. COMB-CLIP.—For displaying dressing-combs without injury Mr. R. J. Reuter, 5, 6, and 7 Denman Street, London, W., has just introduced a clever yet simple device. It is a nickel-silver clip, two of which are fixed in the centre of a card measuring $9\frac{1}{2}$ in. by $3\frac{1}{2}$ in. and lettered "Large assortment of dressing-combs kept in stock." The retailer slips into the "H.F.T.s" the back of any dressing-comb which he wishes to display, and when the customer wants that comb it is easy for the retailer to slip it out, but the customer cannot do so without attracting attention. The clip does not injure the combs in the slightest, and the card does service for dozens. We understand that Mr. Reuter illustrates the clip in his *C. & D.* advertisement this week.

ALMANACKS FOR 1913.—Messrs. James Townsend & Sons, Little Queen Street, Exeter, and 2 and 3 Stonecutter Street, London, E.C., have sent us specimens of the almanacs for 1913 which they are issuing. These are for distribution by chemists to customers, and are in several forms:

Universal Almanack, consisting of thirty-six pages, $7\frac{1}{4}$ by $4\frac{1}{2}$ in., with tinted cover. To this is issued a supplement consisting of eight extra pages.

Bouquet Almanack of thirty-two pages, $3\frac{1}{2}$ by $2\frac{1}{4}$ in., with cover designed in colours.

Purse Almanack of thirty-two pages, $2\frac{3}{4}$ by $1\frac{3}{4}$ in., with artistic cover.

Popular Pocket Diary, $5\frac{1}{4}$ by $2\frac{1}{2}$ in.

Popular Pocket Diary and Note-book of sixty-eight pages (fifty-two Diary), $3\frac{1}{2}$ by $2\frac{1}{4}$ in.

In each case provision is made for the name and address of the chemist, and space is provided for advertising specialities. Samples should be obtained by those who prefer this popular method of advertising.

MARCUS WARD CALENDARS.—From Messrs. McCaw, Stevenson & Orr, Ltd., 31 and 32 Shoe Lane, London, E.C., we have received about thirty samples of Marcus Ward block-calendars for 1913. The calendar portion in all these is in the form of daily tear-offs, with quotations from celebrated poets and authors—general and particular—and from the Bible. There are, for example, several varieties with quotations from Shakspeare, Dickens, Tennyson, Longfellow, and the Scriptures. The black ground to which the calendar block is fastened is different in every case and provides a wide choice of first-class lithography and three-colour work. Many embody reproductions of well-known pictures in the National or private collections, and in these cases particulars are printed on the back, so that the possessor of the calendar is in possession of all the facts concerning his purchase. Mr. W. P. Frith's "Dolly Varden" is a case in point. The original of this belonged to Charles Dickens, and at the sale of his effects fetched 1,000*l.* Others are reproductions of pictures purchased through the Chantrey Bequest for the National Gallery. On the back is given the full calendar for the year, particulars of postal rates and similar information. The calendars sell at protected prices.

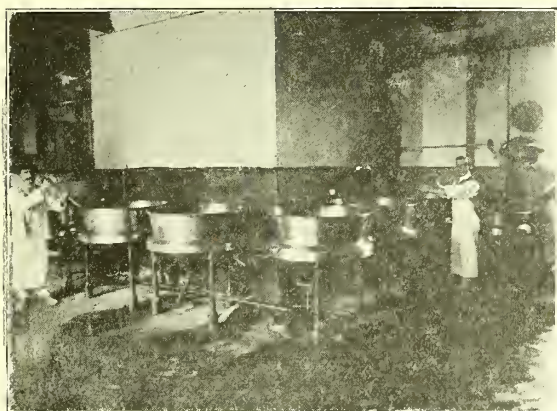
"Valda."

THE introduction of "Valda" pastilles into the British market a year ago was partly the result of the manufacturer's policy and partly following up a demand which had established itself for this popular French proprietary medicine. The pastilles are the invention of a successful pharmacien who is in business in Paris, and whose enterprise has carried the product into all parts of the



THE ENGINE-ROOM

Continent, so that besides the place in Paris there are factories in Italy, Russia, and Spain, which, like the headquarters and the new factory in London, work upon a standard basis in the production of the pastilles, and also control the advertising publicity of the territories which they cover. The works in London are situated in Hythe Road, Willesden Junction, and comprise, besides administrative offices in the front, an extensive factory and warehouse of two floors at the back. Here the factory portion begins with the 25-h.p. steam engine and boiler to supply heat and motive-power throughout the whole factory. Chemists are aware that the "Valda" pastilles are tiny crystallised gum-pastilles of a pale green colour. The basis of these is pure gum acacia and white cane-sugar, the gum being imported direct from Senegal by the manu-

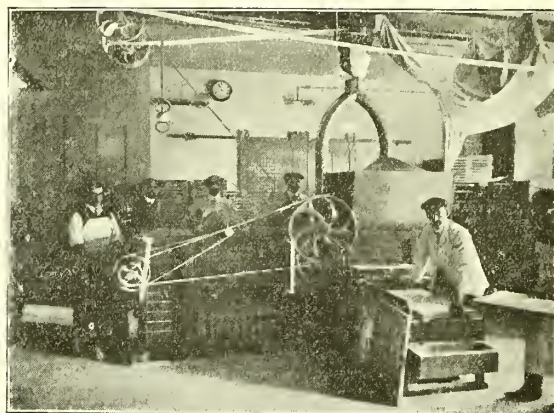


STEAM-JACKETED PANS FOR PREPARING THE PASTILLE-MASS.

facturers to Bordeaux, whence it is distributed to the factories according to their requirements. We noticed tons of the gum in the special warehouse, ready for the autumn and winter trade. The mass is prepared in steam-jacketed copper pans under the superintendence of Mr. Obstancias, manager of the London factory, who is a French pharmacien, and has had many years' experience

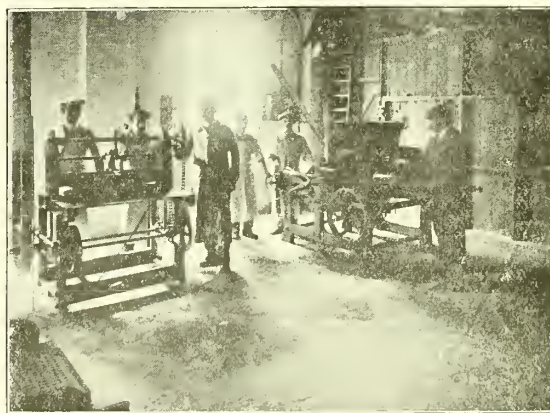
in English pharmacy. The preparation of the solution of sugar and gum is a familiar pharmaceutical operation, but it requires great nicety of handling, because the mass must always be of uniform consistency, and at a certain point in its preparation the solution of medicaments is added—a critical operation which Mr. Obstancias alone conducts. The mass is not considered complete until its consistency has been correctly determined and a small experimental batch of pastilles made from it.

The hours of 6 A.M. to 1 P.M. are usually occupied in the preparation of the mass, which is then conveyed to the



MACHINE FOR SEPARATING AND BRUSHING PASTILLES FREE FROM MATRIX POWDER AND FILLING TRAYS WITH POWDER.

machine-room, where, in the afternoon, it is moulded by means of an ingenious filler, under which trays of starch with rows of holes for the pastille-mass are passed. It is most interesting to watch the empty trays passing through a machine which sifts the starch and fills the trays automatically. The filled tray is then passed on to another machine, which makes the moulds for the pastilles by means of hardwood shapes. The filling-machine is substantially a steam-jacketed V-shaped copper, with exit pipes arranged exactly to fill the row of moulds in the starch tray; it is automatically arranged so that each pipe discharges one gram of the pastille-mass. Then the operator touches a pedal, and the tray passes along to allow another row of moulds to be filled. A trayful is



MOULDING THE PASTILLES.

On the left is a machine which makes the gram-capacity depressions in trays of matrix powder; on the right is the machine that pours pastille-mass into the moulds so made.

made in a few seconds. After standing in a moderately warm room for a certain time the trays of pastilles are taken into a hot room, where the temperature is over 120° F. Although menthol is one of the constituents of the pastilles, it is noticeable that in this hot room one

cannot detect the odour of it, for the pastille basis is of such a nature and the process of manufacture so arranged that it retains its aromatic ingredients unimpaired.

After the pastilles are thoroughly dried, the trays are emptied into the machine already mentioned, which separates the pastilles from the starch, and brushes the pastilles so that they are quite clear. It is this machine which fills the trays with starch after sifting it, and it



CRYSTALLISING THE PASTILLES.

discharges the clean and clear pastilles at one side and trayfuls of starch at the other. The pastilles are now ready for the crystallising process, which is done by dipping them into a solution of pure sugar of correct density, and they are then allowed to drain in a room set aside for this purpose.

Up to this point the pastilles have not been touched by hand. The next stage is sorting them: this is done on the floor above by a staff of young women, who pick out the badly formed pastilles and reject them, the rest being passed on to other women, who do the weighing, 60 grams going into each 1s. 1½d. box. The whole process from basis-making to packing is conducted on hygienic and scientific lines, so that the "Valda" pastille is essentially a piece of elegant pharmacy.

The methodical arrangements which are apparent in the factory are also observed in the warehouse above, where



SORTING THE PASTILLES.

a stock-room contains thousands of boxes of the pastilles ready to be sent out. Each box is numbered, and it is possible to trace from the numbers the names of all who have had anything to do with the particular batch of pastilles contained in the box. A considerable part of the second floor is devoted to the advertising department. So far as the public are concerned, the "Valda" people

make a strong point of reaching individual members of the public direct by post with a pamphlet. A quarter of a million of these were ready for despatch on the occasion of our representative's visit. The floors of the factory are connected by means of an electric lift, and we noticed that the provision for the workers was excellent, the retiring-rooms for the women being quite separate from those of the men, and those who desire to cook food have the opportunity of so doing.

It is interesting to note that in the strict sense of the term the pastilles are not a secret remedy, the formula being included in the Italian Pharmacopoeia, as that is a condition of sale in Italy. The process of manufacture is not without its secrets, but it is all straightforward pharmacy.

ASSOCIATION AFFAIRS.

Birkenhead.—A preliminary meeting of the committee of the Birkenhead and Wirral Association of Pharmacists has been held, and the members are looking forward to renewed activity in the coming session, which is likely to be full of stirring events. In the last few months (writes a correspondent) pharmacy has been somewhat flat, and members have sought recreation in the Royal and Ancient game, even the Insurance Act losing interest in the excitement of a ten-yard put.

Bradford.—A meeting of the Bradford and District Pharmacists' Section of the Bradford Chamber of Trade was held at the Chamber of Trade Rooms on September 24, the Chairman (Mr. M. Firth) presiding. The question of the possibility of adopting *Uniform Closing Times* on the days of the week other than the Wednesday was considered, but it was agreed that it is very unlikely that the shops in the outer district could be closed at the same times as those in the centre of the city. In regard to the anticipated closing order for Wednesdays, a number of questions were asked as to whether the shop doors would have to be closed, whether the shutters would have to be put down, and whether the shops other than chemists where surgical instruments are sold would have to be closed also. The Secretary was requested to communicate with the Town Clerk on the subject. The Chairman then gave his *Inaugural Address*, in the course of which he referred to the National Insurance Act. In regard to the dispensing, he noticed that a sum of 7s. 6d. *per capita* was mentioned as the basis of an agreement with the doctors. If the doctor is to get 6s. and the chemist 1s. 6d. it appeared to him that the chemist would be left out in the cold. He felt very much grieved himself that the Pharmaceutical Society had not sent out any word as to what had been done by the Committee which was appointed on May 8. He considered that that Committee ought to have told them something by now, because the present is a momentous situation which might either make or mar them. They did not even know whether any schedule had been thought of. Possibly the reason why the Pharmaceutical Society had not sent word was that nothing had been done. He thought, however, that they had a right to definite and positive information direct. In regard to the question of proprietary medicines, he said that is not the chemists' trade, and is neither creditable nor profitable. It is only possible to put it upon them through the ignorance of the great masses of the public in regard to matters of health, and is only kept alive by that ignorance. There are very few patent medicines, indeed, that are worth the money that they cost. He would like to see legislation carried through making false representations in an advertisement a penal offence, and he hoped that stricter regulations would be the outcome of the inquiry now proceeding in London. He thought also that attention should be paid to the matter of bogus prescriptions involved in the use of pseudo-scientific names which are advertised. Regarding the increase in the ranks of unqualified men, he thought pharmacists could do a great deal to keep down the number by being careful as to the class of boys they took as apprentices, and by seeing that the apprentices whom they did take passed their Preliminary examination and at once began serious study for the Minor. Of the future of pharmacy he had the greatest hope. The insane cutting of a few years ago is dying a natural death. The drug-stores have found it a dear kind of advertisement, and the pharmacists have hastened the death of cutting by ceasing to take any interest in articles which do not yield a profit. In the discussion that followed Mr. H. R. Jackson said the payments for dispensing under the National Insurance Act would be unremunerative at 1s. 6d. a head, and, moreover, there would be a big drop

in the sale of proprietary articles. Other members expressed similar views.

Cambridge.—The first annual meeting of the Cambridge Junior Pharmaceutical Association was held on September 20 at Croydon Chambers, Regent Street. The attendance included the following: Messrs. Course (Chairman), Hammond (Treasurer), Laxton, Tuch, Peake, George, Parker, Knowles, Atkins, Dodgson, Pedley, Alderton, Coe, Horsepool, Wilson, and Titterington. The Secretary's report was submitted, and the Treasurer announced a balance in hand. The Chairman announced that arrangements had been entered into with the County Council to form a chemistry class to cover the work of the Minor examination, provided a sufficient number of names are sent in. In discussing the programme for the forthcoming session, it was mentioned that several promises of papers have been received. At the first meeting Mr. Titterington will contribute one on elementary botany. Mr. A. H. Course was re-elected Chairman and Mr. Hammond Treasurer. Mr. Titterington was appointed Hon. Secretary, and the names of Messrs. Laxton and Tuch were added to the Committee.

Chesterfield.—The annual meeting of the Chesterfield and District Pharmacists' Association was held on Tuesday evening, September 24, Mr. George Wright (Vice-President) in the chair. Messrs. J. Dent, S. C. Greaves, J. Denwood, T. E. Furness, F. E. Bould (Clowne), F. Houston (New Whittington), H. Twelves (Whittington Moor), E. G. Holmes (Clay Cross), Sales (Brimington), and J. H. Toplis (Hon.

were rendered by Miss Macfarlane, Messrs. Innes and Hart; readings by Mr. Peter Irvine and Mr. Angus Shaw; Mrs. Weir gave a fine pianoforte selection, and also accompanied the singers; Mr. Munro did mystifying conjuring tricks and a ventriloquial sketch. Messrs. Gilmour, Hart, and Gardiner addressed the meeting, Mr. Gilmour speaking hopefully of the prospects of the drug-trade under the altered conditions by the National Insurance Act. After votes of thanks, "Auld Lang Syne" closed a delightful evening.

Peterborough.—A meeting of the Council of the Peterborough Chemists' Association was held at the Grand Hotel on September 20. In the absence of the President (Mr. Bell, Spalding), Mr. Bodger occupied the chair. Communications were considered relative to the National Insurance Act and the nomination of Divisional Secretaries of the Pharmaceutical Society. The Shops Act was discussed, and it was agreed that Thursday 1 p.m. should be the closing time.

Portsmouth.—The first meeting of the winter session of the Portsmouth Pharmacists' Association took place at the County Club, Southsea, on September 25, and was well attended, Mr. W. A. Bell (the President) occupying the chair. Supporting him were the officers of the Association—Messrs. C. H. Baker (Vice-President), W. R. Atterbury (Treasurer), Postlethwaite (Secretary), T. A. White, M.C.P.S., and Messrs. Wride (Southampton) and Clugstone (Meriton), visitors. Mr. Woolcock addressed the meeting in a confidential way, his remarks relating chiefly to the present position and the future working of the National Insurance Act, and a lively discussion resulted.



THE SOUTHAMPTON PARTY AT WINCHESTER.

Back Row (left to right): Messrs. Innes, Chaston, Johns, Hodges, Hills, Thompson, Atkinson, Miss Wride, Mrs. Wride, Mr. Wride. Second Row: Mr. Clark, Mrs. Bate, Mr. and Mrs. Wilson, Miss Handley, Mrs. Atkinson, Miss Austin, Mrs. Dodridge, Miss Clark, Mrs. Clark, Mrs. Hussey, Mrs. Thompson, Mr. Jewell. Front Row: Master Wilson, Messrs. Egerton, Riddle, Dodridge.

Secretary) were also present. The reports of the Secretary and Treasurer were most satisfactory, and were passed. The following were elected office-bearers for the ensuing year: Mr. George Wright, *President*; Mr. Twelves, *Vice-President*; Mr. J. H. Toplis, *Hon. Secretary*; Mr. Sidney Greaves, *Treasurer*; with a *Committee* consisting of Messrs. Houston, Furness, Lent, Bradley, and Twelves. Messrs. Dent and Twelves were re-elected *Honorary Auditors*. Mr. J. R. D. Barfoot was nominated for election as Divisional Secretary to the Pharmaceutical Society. The Secretary was instructed to send a hearty vote of thanks to Mr. A. W. Greaves, the retiring President, for his services in the past year. The members spent the rest of the evening discussing the National Insurance Act and several matters of local interest.

N.U.A.P.—The proposed meeting of the London branch of the National Union of Assistant Pharmacists on Monday evening, September 23, was, owing to the "meagre" attendance, postponed until Sunday, October 6, when it will be held at the London College of Pharmacy, 361 Clapham Road, S.W., at 3 p.m.

Paisley.—The first annual social meeting of the Paisley and District Pharmaceutical Association was held in the Royal Oak Hall, Paisley, on Tuesday evening, September 24, Mr. Alexander Fraser (President) in the chair. He was supported by Messrs. William Sim (Vice-President), Hawthorn Stewart (Secretary), Leckie, McConnell (Johnstone), Hendry (Renfrew), and William Reid (members of committee). The guests included Messrs. J. P. Gilmour, J. H. Hart, Peter Irvine, M. Carmichael, J. Lennox, T. Taylor, J. Innes (Glasgow) and George Gardiner, B.Sc. Over sixty ladies and gentlemen sat down to tea, after which the Chairman briefly addressed the meeting, and songs

were rendered by Miss Macfarlane, Messrs. Innes and Hart; readings by Mr. Peter Irvine and Mr. Angus Shaw; Mrs. Weir gave a fine pianoforte selection, and also accompanied the singers; Mr. Munro did mystifying conjuring tricks and a ventriloquial sketch. Messrs. Gilmour, Hart, and Gardiner addressed the meeting, Mr. Gilmour speaking hopefully of the prospects of the drug-trade under the altered conditions by the National Insurance Act. After votes of thanks, "Auld Lang Syne" closed a delightful evening.

Sheffield.—At a meeting of the Sheffield Pharmaceutical and Chemical Society on Friday, September 20, it was announced that classes for the Minor examination have been started at the Central Secondary School, with Mr. A. Knowles as lecturer in materia medica and pharmacy. Miss Jessie Boulter and ten other new members and nine associates were elected. Miss Boulter is the first qualified lady chemist to become a member of the Society.

Southampton.—The Southampton and District Pharmacists' Association combined business with pleasure last week, when the members (accompanied by their wives in some cases) visited Winchester, first inspecting the College and Cathedral, then all had tea in Dumper's City Restaurant, after which the members discussed business. Mr. A. E. Chaston, Ph.C., met the party, some of whom had come by motor. It is a rare privilege to be shown over the famous school, but this Mr. Chaston had made sure, and an official of the College acted as guide. Afterwards the party went to the Cathedral, where the Ven. William Andrews Fearon, D.D., showed them over the ancient building, explaining the recent alterations which had been rendered necessary owing to the shifting foundation, and during the hour and a half they were there he gave some interesting addresses. The President (Mr. W. Bates) having thanked the Archdeacon, the party went to tea. At eight o'clock before the business-meeting, the President introduced Mr. L. S. MacPhail, of Aerators, Ltd., who gave an address on the present condition of the syphon-trade among chemists, and

gave a demonstration of his company's apparatus, including a new syphon-filling arrangement. Business began at 8.30 p.m. Besides the President there were present Messrs. W. Wilcockson (Vice-President), F. B. Wride (Hon. Secretary), Clark, Chaston, McConachie, Hodges, Cope, Turner, Inge, H. Wilson, Riddle, Wilkins, Dodridge, Thompson, Andrews, Jewell, Atkinson, Hussey, Bartlett, Murray, Edgerton, and Hill. Mr. H. Wilson, F.I.C., was recommended as Divisional Officer for Southampton and Mr. A. E. Chaston for Winchester. Both these gentlemen acknowledged the honour conferred upon them. The President then addressed the meeting on the advantages of a district Association, and congratulated the Winchester chemists upon joining this Association, most cordially thanking Mr. Chaston for all that he had done to make the visit a success. After discussion it was resolved: "That this meeting approve of the committee using their best endeavours to arrange minimum retail prices for the pharmacists in the area covered by the Association." Several new members were enrolled, and a hearty vote of thanks was accorded to the President.

WILLS PROVEN.

THE late Mr. William Forgie, chemist and druggist, Partick and Falkirk, left personal estate in the United Kingdom valued at 5,988*l.*

MR. ROBERT BROWN, 3 Trinity Road, Darlington, who died on May 9, left estate of the gross value of 665*l.*, of which 16*l.* 9*s.* 6*d.* is net personalty.

MR. WILLIAM MILES, 51 Fleet Street, Swindon, who died on September 2, left estate of the gross value of 2,315*l.* 13*s.* 1*d.*, with net personalty 1,191*l.* 5*s.* 4*d.*

MR. THOMAS ALEXANDER HAY, chemist and druggist, 79 High Street, Wavertree, Liverpool, who died on May 31, left estate valued at 366*l.* gross and at 43*l.* 2*s.* 8*d.* in net personalty.

MR. DAVID MURDOCH, retired chemist, 44 Coniston Drive, Edinburgh, who died on July 25, left personal estate in the United Kingdom valued at 2,514*l.*, of which 2,484*l.* is in Scotland.

MR. JOSEPH THOMAS ROBINSON, chemist and druggist, Thormanby Hill, near Easingwold, who died on August 27, left estate valued at 1,217*l.* 19*s.* 7*d.* gross, with net personalty 375*l.* 0*s.* 6*d.*

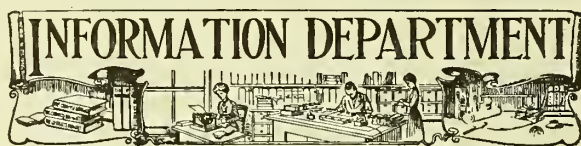
MR. FREDERICK WILLIAM SAYERS, chemist and druggist, 32 King's Road, Chelsea, London, S.W., who died on August 13, left estate valued at 294*l.* 14*s.* 11*d.* gross, with net personalty *nil*.

MR. JOHN HENRY CLAYTON, 21 Francis Street, Leeds, of Messrs. J. H. Clayton & Sons, wholesale druggists, who died on July 16, left estate valued at 1,523*l.* 12*s.* gross, with net personalty 1,131*l.* 9*s.* 8*d.*

CURACAO PRODUCTS.—There is a degree of distress in the Dutch West Indies (especially Curaçao) such as has not been known for many years, writes the British Consul in his annual report for 1911. The few agricultural products, such as divi-divi, aloes, and orange-peel, do not bring in a fair price to the producer.

THE OLD AND THE NEW WAYS of warming beds are illustrated in a pharmacy in Highgate this week by a good window-show of hot-water bottles. The old way is illustrated by a fine specimen of an old copper warming-pan, and the new by modern hot-water bottles in indiarubber, earthenware, and metal. It is a most effective show.

NEW WAY OF SELLING GOODS.—A correspondent of the "Manchester Guardian" tells how he was recently travelling through Worcester, Massachusetts, and while in the station he noticed the private car of a wholesale druggist company, which was on an adjacent siding. It was a car of the Pullman style, with a kitchen at one end and a small office at the other, which also served as a sleeping apartment. The centre of the car was fitted up as a chemist's shop, with shelves and showcases, all well stocked with goods. A salesman was in charge, and Worcester chemists were in the car ordering their supplies, instead of the traveller or drummer journeying from shop to shop in the city or displaying his goods in a sample-room at an hotel. Only a big company and one with an established reputation could do business on this scale and under these conditions, and from the attention that was bestowed on the car the correspondent imagines that this method of selling goods is still a novelty in a country where it is often insisted that salesmanship has been elevated into a profession.



Postal Address:
C. & D. INFORMATION DEPARTMENT, 42 Cannon Street, London, E.C.
Telegraphic Address: "CHEMICUS LONDON."
Telephone No.: BANK 852 (two lines).

INFORMATION WANTED.

We would be obliged if any reader would inform us by post-card or telephone who are the makers or agents of the articles mentioned in the following inquiries:

- 58/220. "Cystoform."
- 60/500. "Wimple" loofahs: supply.
- 57/70. "Farmers' Friend" embrocation.
- 55/29. "Schmoll's Head-soap": suppliers.
- 60/30. "Agnus Castus": where obtainable?
- 58/22. Merson's "Wonder Cure" for Epilepsy.
- 60/50. Dr. Baker's perforated elastic stockings.
- 53/66. Davis & Draper's "Glycerin Cough-elixer."
- 56/65. "Jason" brand bandages for varicose veins.
- 55/23. Eguisier's "Veritable" irrigator: suppliers.
- 60/31. Quardroline (Jukon): what is it and who supplies?
- 61/30. Bertoni's ether (tertiary amyl nitrite): British suppliers.
- 59/72. Machine that will perforate and print toilet-rolls simultaneously.
- 60/10. "Ko-Sam" tablets (? Japanese remedy), look like compressed linseed-meal.
- 56/59. "Simpson's Specific" (for hoarseness), sold in the Manchester district, specially to the theatrical profession.

INFORMATION SUPPLIED.

During the past week we have answered inquiries as to the makers or sellers of the following articles. The information will be repeated to other inquirers who send to this Department a stamped and addressed envelope for the purpose.

- | | |
|--|--|
| Analgen tablets, 58/74 | Loxton's "Medical Directory" (London agent), 57/35 |
| Anilin chloride, 60/2 | Midland Dental Manufacturing Co.'s goods, 53/69 |
| "Ator" razors, 58/72 | Miles's "Anti-pain" tablets, 57/49 |
| Boracic soles (actual makers), 56/16 | Milking (Bacchus Marsh), London agents, 215/46 |
| Boranium, 59/15 | "Mousmi" perfumery, 56/51 |
| Brahmol soap, 56/38 | Nicotine soap, 54/38 |
| Casein (bulk), 50/65 | Orris-root (ton lots), 60/320 |
| Casogen, 59/150 | Pasteur Institute, 56/40 |
| Correspondence classes for S.M.C. examinations, 54/35 | Phillipe Henri's shampoo-powder, 52/20 |
| Davol Rubber Co.'s goods, 35/28 | Process blocks (Barbados), 55/59 |
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| French chalk, in oblongs (for marking steel plate), 55/25 | Safety-razors (actual manufacturers, German), 52/7 |
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| Lavender flowers, 60/32 | |
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| "Le Negri" tooth-picks, 57/68 | |

APPRECIATIONS.

From a Gloucester Pharmacist:

"Many thanks for your prompt reply to my inquiry re superfatted skin-soap. Your Information Department is indeed a great boon." (47/49.)

OBSERVATIONS & REFLECTIONS

By Xrayser II.

Julius Cæsar,

the greatest man of action, I suppose, that ever lived, is reported by Plutarch to have said that he would rather be first in the Province than second in Rome, but your correspondent "Felix," who was, however, somewhat severely handled by two critics last week, does not seem to be of this mind. The answer to the question, Is it best to have a small business of one's own or to manage a larger one for somebody else? depends partly upon circumstances and still more upon character, and every man must find it for himself; but, speaking generally, there is an appearance of pusillanimity, of want of enterprise and initiative, of distrust of one's own powers, in the choice of the second fiddle, and I do not think anyone of strong character and complete self-confidence would willingly make it. "One shines in the second rank who is outshone in the first," says Voltaire, and some men who are good servants make poor masters. Men of this kind may be well advised to seek permanent situations instead of launching out for themselves, but they are not of the first order of men. And there is another point of view which may not have occurred to "Felix." When failing health or advancing years make it no longer possible for him to satisfy an employer, he may regret that he has not an independent position, however humble; I notice that most advertisers for assistants of any kind name an age-limit.

Recognition

of the International Congress of Applied Chemistry by the President of the United States must be taken as a proof of the standing which chemists have in that democratic country. I would not like to say that the recognition has anything to do with the wealth of the members of the Congress, nor that it has any connection with the struggle now beginning for the Presidency, but it is noticeable that a special effort to be present was made by Mr. Taft. Your account states that he had come at "the cost of considerable physical pain and personal convenience." The reception recalls to my mind the last meeting of the Congress in London. I was one of those present in the Albert Hall when King George V., then Prince of Wales, welcomed the members, and remember that I felt a glow of satisfaction that the Prince of Wales made such a good impression on the visitors who represented every civilised nation of the earth. Dr. Wiley, who sat next to the Princess of Wales, is a big man, and his charming courtesy both in speech and manner was a pleasant feature of the proceedings.

The Proposed New Pharmacy Law

for France, of which your Paris correspondent sends an outline, is an instance of that application of logic to affairs which is much more common on the other side of the Channel than with us. Many of its provisions will make the mouths of English pharmacists water, and although the benefit of these has to be purchased by submission to others which most of us would resent, I am inclined to think them worth the price demanded. The ambiguity of our own position has disadvantages of its own sufficiently serious to make some of us desire a closer approximation to Continental conditions. I am aware of having spoken in a contrary sense on previous occasions, but not only has our pharmacy law become more complex of late years without affording us any greater protection, but our position has become at once

less definite and less protected than it was; and I am more and more convinced every year that, even for us, to say nothing of the public, there is no satisfactory, as there certainly is no logical middle course between absolute free-trade in physic and restriction on the lines of the proposed new French law. And free-trade being unthinkable, the alternative is worth considering.

A Dispensing-fee

of 4d. per prescription is vague until one knows what is meant by "a prescription." There are still many medical men who delight in poly-pharmacy, not only as regards the composition of a mixture but as to the variety of ways in which treatment is to be applied, and so one scrip often contains two or three separate recipes, each of which, if written on a separate paper, would constitute "a prescription." Looking over the prescription-book anyone can find numerous examples of these double-barrelled prescriptions, and the question is whether the charge for dispensing is to cover both barrels or only one. In certain cases the allowance of 4d. will be liberal, but in these the actual value of the ingredients is nominal, as in a zinc or boric lotion, and therefore the gross price cannot be more than a few pence. On the whole, the fee proposed is a reasonable compromise, and on this basis the Insurance Act dispensing will mean an amount of business that need not be despised, even by men who already have a good dispensing connection.

Camphor-hunting in Borneo,

as described by Mr. Gomes, for many years a missionary among the Dyaks of that island, is one of the most romantic of surviving industries. Before starting to collect it the hunters camp out in little huts in the jungle, waiting for favourable omens from the birds by whose flight or song they are guided. When these are auspicious the hunt begins. It is believed that if the name of the drug, or of any of the implements used in gathering it, or even of any of the different races—Chinese, Malays, or Europeans—to whom it may be sold is mentioned during the hunt, the spirits that own the trees will take fright and hide it. Periphrases of various kinds are therefore used for the purpose of deceiving them, the camphor itself being spoken of as "the thing that smells." When a camphor-tree is found, it is chipped with an axe and smelt, and if the presence of camphor in sufficient quantity is indicated the tree is cut down at the point at which it was tapped; for to cut down the whole tree would, it is believed, cause the gum to liquefy. The trunks are sometimes full of crystals to a depth of from four to seven feet, but it may be that only a little liquid camphor is found at the bottom.

The Camphor-tree of Japan

(*Cinnamomum Camphora*) has still more romantic associations, being in the folk-lore of the islands credited with power over the elements. There is said to be "a big and gnarly specimen" in the temple grove at Atami of which this story is told: Once upon a time a terrible earthquake took place in the neighbourhood. The ground shook, the sea rose in heaps, men were half choked by steam and gas rising from the fissures that opened in the earth, and the camphor-tree was split from top to bottom. Then out of its riven trunk there stepped a beautiful figure holding a branch that had fallen from the tree, which, when waved over sea and shore, caused the tumult to subside. The priests say that it was the goddess Kwanon who emerged from the tree, as if she were the soul of it, and from that day it has been regarded as inhabited by her.

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Editorial Articles.

Medical Benefit.

It was expected that the Advisory Committee under the National Insurance Act which met in London on Friday, September 20, would have completed the consideration of the medical-benefit regulations, and they got sufficiently far to enable an unofficial announcement to be made that there is a possibility of agreement between the Insurance Commissioners and the State Sickness Insurance Committee of the British Medical Association. "The Times" of September 23 stated that a draft of the regulations had been sent to the Committee by the Insurance Commissioners as an act of courtesy, and our contemporary added that the regulations are said by those experts who have seen them to give ground for hopes of a settlement. The following extract shows how matters are going so far as medical benefit is concerned:

"The question of remuneration for medical attendance is left to the Local Health Committees (now Insurance Committees.—EDITOR, C. & D.), who have the option of arranging payment on any of the four following bases:

- (1) Capitation only.
- (2) A small capitation-fee with some payment for special services.
- (3) Payment for special services with a small capitation-fee.
- (4) Payment by attendance only.

The difference between (2) and (3), it is explained, is that in the former the capitation-fee, though small, is the main basis of the proposal; in the other the main basis is the payment for special services."

It is surmised that the payment to medical practitioners in respect to their portion of the medical benefit provided will be more than the 6s. that the Chancellor of the Exchequer had appropriated for the doctor and the chemist, and it is understood that the Chancellor will apply to the

House of Commons for sufficient money to meet the deficit. Much is said about the British Medical Association's attitude on the matter. On the following day "The Times" mentioned a contradiction by Dr. Cox, Medical Secretary of the Association, and our contemporary's correspondent said in reply:

The text of the draft regulations relating to medical benefits under the Insurance Act is, in its present form—though this, as stated yesterday in "The Times," is subject to modification in phraseology—somewhat lengthy, extending to several thousand words. The reason for this is that the regulations naturally deal with many matters more or less directly contingent on the payment of medical men, such as the supply of medicines, operations, etc.

There is no question that very strong efforts are being made by the Commissioners to satisfy the doctors, and it is further well known that the representatives of the doctors have been using every grain of their influence to get the Commissioners to allow doctors to dispense medicines as well as prescribe them, and this is where the chemist is particularly interested. The matter was considered to be sufficiently important to call for a meeting of the Pharmaceutical Standing Committee on Insurance. This was held in London on Monday evening, September 23, members from all parts of the country being present, and it was a fully representative meeting. The main business before it was consideration of the dispensing charges which had been submitted on a tariff basis. The chemist's position is much the same as the doctor's. Provision is being made under the Act for the payment of medical attendance and medical and surgical appliances, but according to the doctors it is barely enough to pay for medical attendance, thus wiping out what was at one time believed to be the amount for medicines and medical and surgical appliances—namely, 1s. 6d. *per capita* of insured persons. It is true that the Chancellor of the Exchequer, in the interview that pharmacists had with him more than a year ago, denied that he had ever said that 1s. 6d. had been appropriated for this purpose, and he did not commit himself to any figure higher or lower; but the Commissioners are working on the 1s. 6d. basis, which is regarded by chemists' representatives to be insufficient. The question arises whether the Commissioners could give the dispensing to doctors. It was certainly the Chancellor of the Exchequer's intention that unless in special cases doctors should not dispense medicines, but that retail chemists should do so; and this principle is recognised in Section 15, Sub-section 5 (iii) of the Act, which states that the regulations *shall prohibit* arrangements for the dispensing of medicines being made with persons other than those recognised by the Pharmacy Act, 1868, and the Poisons and Pharmacy Act, 1908, but this is subject to the prior provision—namely:

"*Except as may be provided by regulations made by the Insurance Commissioners, no arrangement shall be made by the Insurance Committee with a medical practitioner under which he is bound or agrees to supply drugs or medicine to any insured persons.*"

The portion which we have italicised shows that the Commissioners have elastic powers, but so far in the draft regulations they have adhered to the principle and the letter of the sub-section by providing that dispensing shall be done in accordance with provision (iii). There are still difficulties in the way of the pharmaceutical representatives, however, and it remains to be seen how far they will succeed in reaching an agreement with the Commissioners on the question of price. This, we trust, will be soon, as chemists throughout the country are getting anxious, and are becoming irritated owing to the lack of definite official information.

Opium in India.

In the *C. & D.* of August 31 (index folio 357) we referred to the changes proposed by the Indian Government in their internal opium arrangements and the preparation of smoking-material. These proposals, which are of an important and far-reaching character, take the form of a lengthy Resolution which is printed in full in the Indian newspapers to hand by this week's mail. That dealing with the regulation of morphine and allied opium compounds is as follows:

The urgent necessity of a self-contained body of rules relating to morphia and allied opium compounds has been brought to the notice of the Government of India, and stress has been laid on the desirability of their unification for the whole of British India (including Burma). At present the regulations which apply to morphia and allied compounds are scattered through the Opium or Excise Manuals of the different Provinces. They are not in all cases clear, and they are not easy to consult, as provisions about ordinary opium or smoking preparations of opium are mixed up with the provisions about morphia and allied compounds, although the provisions in the case of all these forms of opium tend to diverge more and more every day. Again, the diversity in the morphia rules from Province to Province is often purely accidental; and while it is a source of weakness to the administration, it supplies loop-holes for smugglers and criminals. In the case of a drug like morphia there are no special local conditions to be allowed for, and the Government of India think that unified rules for the whole of British India will be both easier for officials to enforce and simpler for the people to understand. They will be glad, therefore, if local Governments will bring together their rules about morphia and allied compounds in a self-contained form, examine them with a view to such amendment in the direction of greater stringency as may be considered suitable, and then forward them to the Government of India for final unification.

The Resolution is practically the outcome of the International Opium Commission, which urged the various Governments to re-examine their systems of regulating opium in the light of other countries dealing with the same problem. This the Indian Government have now done, and although they maintain that they have hitherto always vigilantly exercised control over the employment of opium in India, they still consider it is possible further to increase the strictness of their control. Accordingly, another part of the Resolution deals with the closing of all opium saloons and to prohibit all manufacture of opium-smoking preparations, save by an individual of a small quantity for his own private consumption. Two persons may legally smoke opium together, but three or more may not. The daily quantity is to be regulated by local circumstances and by the local Governments—*e.g.*, the Bombay Government have suggested the low limit of 45 grains, and Madras half a tola, or 90 grains. The Government negative the proposal to prohibit individuals from smoking opium as interfering with the private habits of the people. They intend, however, to fix the price at which opium is issued from the Government treasuries so as to make its consumption a luxury, and among minor reforms suggested is the further reduction in the number of opium retail shops, further restriction in the hours of sale, and the raising of the purchaser's minimum age.

Contracts for Almanacs.

This is about the time of year when chemists have in the past signed contracts for supplies of almanacs, on the representations of the travellers that they will have them free of any cost if they get manufacturers and wholesalers to advertise in them. Many have complained to us that the results did not reach their expectations, and that they were talked into signing the contract form. Perhaps this note may serve to put others on their guard.

Drug-culture.

Mr. John C. Umney informs us that he has as President of the British Pharmaceutical Conference been in communication with his immediate predecessor, Sir Edward Evans, regarding his suggestions about drug-culture referred to in his address at Edinburgh, with a view to something practical being done in the matter. Certain sections of the London Chamber of Commerce are to give evidence before the British Empire Council of Commerce, which has recently been appointed, and Mr. Umney as Chairman of the Chemical Section is calling a meeting of it on Wednesday, October 9, at 3.30 p.m., for the purpose of deciding upon the advisability of giving evidence before the Council on the cultivation of medicinal plants and of materials for essential-oil distillation. The latter subject is added as being pertinent to the objects of the Council's inquiry, and in the belief that the British Empire can produce the raw materials for many essential oils—e.g., lemon oil—which are "cornered" now and then, apart from which there are possibilities in new parts of the Empire which should not be neglected. The members of the Perfumery Section of the Chamber are to be invited to the meeting, and Mr. J. Herbert E. Evans and Professor H. G. Greenish have promised to be present. The latter has agreed to give evidence on drug-culture before the Council if required.

Co-operative Testing.

According to a cutting from a North-Country newspaper which reaches us this week, the next development in the drug-trade is the co-operative testing of wholesale purchases of drugs. We are told that chemists have already experienced the advantages of co-operative buying, and that a new development is co-operative testing. This is not such a new thing after all, for wholesale houses invariably examine, chemically or physically, their manufactures or purchases before distributing them to the retailer. The expense of testing, it is stated, is considerable; but it must be remembered that the statutory position in which guarantees are placed makes it necessary that at some time or other the purchase must be carefully examined to see that it conforms to commercial requirements. The increased requirements in regard to standards, which are to be a feature of the next edition of the Pharmacopœia, will probably lead more than ever to the abandonment of the assay of galenicals and chemicals by retailers, but the struggle for existence which is everywhere apparent makes it necessary to delegate some of the operations of the pharmacy, especially those which are less directly concerned with the bread-and-butter side.

Octroi in Bombay.

The experiment of introducing a system of terminal taxation in lieu of octroi in the Bombay Presidency, referred to in our news from India (see *Col. Supp.*), will be watched with interest in other presidencies and provinces. The committee which investigated the subject reported that they found no trace in towns in the Bombay Presidency of the abuses said to be prevalent in Northern India (Punjab), and, in fact, octroi is thoroughly popular with all classes. If this is so, the traders and public in Bombay are to be congratulated either on their patience or on having brought the octroi system of taxation to a pitch of efficiency unknown elsewhere. What do chemists and other traders in the Punjab think of this? Nevertheless, the committee recognises that a system of terminal taxation without refunds has certain obvious advantages over octroi, and they therefore recommend its tentative adoption in selected municipalities. It is to

be hoped, says the "Civil and Military Gazette" of Lahore, that the recommendation by the Bombay Government will be accepted by the Government of India, and that action in this case will be more speedy than it has been in the United Provinces, where several years ago a committee condemned the octroi system (*C. & D.*, September 1909) and recommended the substitution of terminal taxes.

SCIENTIFIC PROGRESS.

Temperatures under this heading are on the Centigrade scale.

Tiger's Fat.—At the meeting of the Asiatic Society of Bengal on August 7, Mr. D. Hooper exhibited a specimen of the fat of a tiger (*Felis tigris*) received from Mourbhanj. Tiger's fat has a considerable local reputation as a healing remedy for ulcers and skin affections. The sample was somewhat decomposed, its acid-value being 133. The chemical and physical constants are: Specific gravity at 40° C., 0.8912; melting-point, 35°; saponification-value, 200.8; iodine-value, 57.7; 95 per cent. of fatty acids melting at 37.5°; neutralisation-value, 208.2, consisting principally of oleic and palmitic acids. The fat is related to that of the wild cat (*F. catus*) and domestic cat (*F. domestica*) examined by Amthor and Zink ("Chem. Zeitung," 1906, 54).

Benzoic Acid as an Acidimetric Standard.—George W. Morey ("Journal of the Washington Academy of Sciences," ii., No. 13) summarises the results of his standardisations investigating the utility of benzoic acid as a primary standard in acidimetry and alkalimetry:

Method	0.1/N factor for HCl
Direct by Hulett and Bonner	0.9980
Direct by AgCl	0.9984
H ₂ SO ₄ —BaSO ₄ —NaOH—HCl	0.9984
H ₂ SO ₄ —Na ₂ C ₂ O ₄ —NaOH—HCl	0.9982
C ₆ H ₅ CO ₂ H—Ba(OH) ₂ —HCl	0.9984
C ₆ H ₅ CO ₂ H—NaOH—HCl	0.9981

He considers the close agreement of the results proves the accuracy of the benzoic-acid method, which has many advantages. The high molecular weight of the acid permits the use of large samples, thus reducing the error of weighing; its stability and lack of hygroscopicity make it very convenient; and the method is rapid, since a single weighing and a titration are all the operations involved. These considerations, combined with the ease of obtaining it in a high state of purity, make benzoic acid an excellent material to use as a standard in acidimetry and alkalimetry.

Linalol from Shu Yu Oil.—With reference to the consular report on this oil (*C. & D.*, September 14, index folio 454), we subjoin an analytical report on two samples which we obtained from the Board of Trade:

	A (from crude oil)	B (from crude oil of high density)
Specific gravity	0.880	0.883
Rotation	-15°45'	-14°
Refractive index at 20°	1.4636	1.4654
Dispersion	39	39
Apparent linalol value	61%	50%

It is practically impossible to determine the amount of linalol in a given oil by the acetylation process, chemically pure linalol usually yielding a result from 85 to 90 per cent. Both the samples had an odour which is not suggestive of pure linalol. The physical constituents agree with this conclusion, as do the acetylation results. The oils can only be described as crude linalol, probably containing about two-thirds of the pure alcohol. Similar results are reported by the editor of the "Perfumery and Essential Oil Record" (Mr. John C. Umney), and he remarks that "the products are of the very greatest importance, because it is clear that from these oils, containing about 60 per cent. or thereabouts of linolol, it will be possible to produce enormous quantities of its acetic ester, which will be largely used for the replacement of lavender oils and bergamot oils if the present high prices are maintained. In the case of bergamot oil, we can see in the near future a considerable reduction in price arising from the competition which is bound to come with the synthetic oils which have received such a fillip during the past twelve months from the high prices ruling for the natural oils."

MICHAEL FARADAY was born at Newington, in Surrey, September 22, 1791. In 1858 Prince Albert offered Faraday a house on Hampton Court Green, where he spent much time during the remaining nine years of his life.



Reported by Our Own Representative at the Congress.

Pharmaceutical Chemistry Section.

MY last report brought the record down to the highly successful essential-oil symposium. Besides the papers by Messrs. Umney and Parry and MM. Jeancard and Satie, Dr. Francis D. Dodge (Dodge & Olcott Co.) communicated one on

THE ANALYSIS OF OIL OF BITTER ALMONDS AND BENZALDEHYDE.

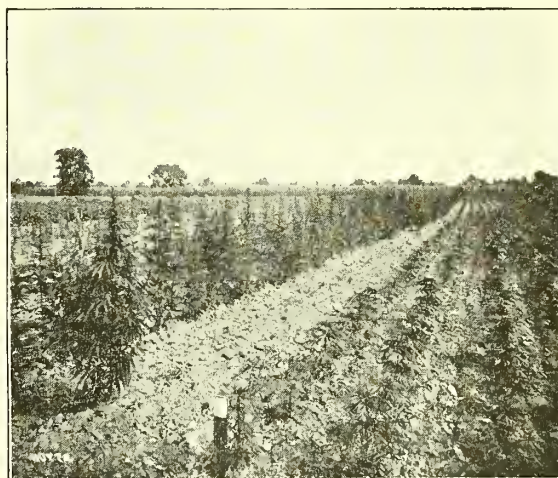
In the course of this, Mr. Dodge said the U.S.P. process with sodium bisulphite does not give consistent results. Ripper's iodimetric method can be made to yield more approximate methods, the best results being obtained when 0.15 gram of the aldehyde is dissolved by gentle shaking in 25 c.c. of N/5 sodium bisulphite contained in a flask, which is then corked and allowed to stand for one and a half to two hours in cold water. The contents are then titrated with decinormal iodine solution against a blank treated similarly, and the difference calculated to benzaldehyde (1 c.c. decinormal iodine = 0.0053 gram benzaldehyde). The end point is assumed when the blue colour is permanent for a few seconds. The oxime method of Walther or Bennett as used for lemon oil does not appear to the author to offer any advantage over iodimetric assay. The hydrazone method of Denner proved satisfactory, but the instability of the reagent is a disadvantage. The results are generally a little too high. A method utilising Cannizzaro's reaction with strong alkali, by which benzaldehyde is converted into potassium benzoate and benzyl alcohol, is considered sufficiently simple to be worthy of consideration by Pharmacopoeia authorities, good results being possible with 2.5N alcoholic potassium hydrate solution, especially when allowed (instead of heating) to stand at room-temperature for twenty-four hours. Its application to essential oil of almonds assay was not very satisfactory, saponification of mandelic nitrile being apparently incomplete. The author reminds workers that the presence of hydrocyanic acid in oil of bitter almonds must be borne in mind as causing irregularities with the various methods of assaying benzaldehyde. A yellow oil, heavier than water and with an agreeable odour, was separated from essential almond oil (freed from prussic acid) from the ethereal solution of the oil remaining after precipitation with concentrated sodium bisulphite solution. This amounts to about 0.2 per cent., and Mr. Dodge thinks it is probably not without influence on the aroma of the natural oil, as artificial benzaldehyde does not yield it.

The following communication was referred to in the report of September 14:

AMERICAN-GROWN AND INDIAN CANNABIS.

Messrs. C. R. Eckler and F. A. Miller, of Indianapolis, Indiana, have grown foreign and American hemp on experimental plots and compared the activity of the drug with that of good Indian-grown samples. The question of including the American variety of hemp in the next U.S.P. owing to the increased cost of the Indian drug led to the investigation being made. A plot of 60 by 30 feet of rather poor clay loam was sown with seeds from an active lot of Indian cannabis. A good

stand of plants was easily obtained, but these exhibited a wide range of variation. Twelve plants were of dwarf non-branching habit (1 to 2 feet high) and flowered early, producing heavy, compact, and leafless pistillate inflorescences, averaging 2 to 4 in. in length. Their approximate percentage activity as compared with the Indian drug, after curing at room temperature, was 40 per cent. The remainder of the plants on Plot A were 3 to 7 feet high and much branched. The small



FIELD OF AMERICAN CANNABIS.
Grown on the farm of Eli Lilly & Co., Indianapolis.

inconspicuous flower-clusters were late in appearing and bore few resin-bearing glands. The pistillate tops did not possess the odour of cannabis to such a marked degree as noticed in the dwarf plants. Their approximate activity was 50 per cent. Seeds selected from the three earliest-flowering dwarfs were sown in Plot B. The plants were a great improvement over their parents, averaging 2 to 5 feet in height, being more branched, and bearing long, dense, and resinous inflorescences (averaging over 12 in.). The approximate activity of the twelve best plants as compared with good Indian drug was 60 per cent. On Plot C further selective planting was made. The seeds from the plant with the largest inflorescence (14 in. long) gave low, almost unbranched individuals, with pistillate flowering-tops averaging 10 in. in length, which were more leafy than the parent form. They possessed not more than 50 per cent. of the activity of good Indian drug. A plant showing a deep purple colour in all parts was propagated; but few of its progeny possessed the purple characteristic to a marked degree, and the inflorescences were less dense than in the parents. Their activity was not more than 50 per cent. On Plot D plants of unusual size and vigour, but with an extremely low percentage of flowering-tops, were grown from seed

taken from a commercial parcel of *cannabis indica*. In activity the drug approximated 40 per cent. of the standard. Two samples grown on plots D and E from seeds from Lexington, Ky., of American hemp, grown under similar conditions, gave poor small tops bearing a large proportion of leaves. The drug approximated 40 to 50 per cent. of the standard.

The activity of several samples of Indian hemp purchased from drug-brokers was tested physiologically by administering doses of 20-per-cent. tincture calculated to the body weight for each dog, in pill or capsule form, after removal of spirit without heat. The animals were tested in one or more pairs, the unknown and standard preparation being tested alternatively on each until the minimum amount of each preparation necessary to produce slight but distinct inco-ordination of the muscles was determined. Two Indianapolis samples, consisting chiefly of leafy tops from wild plants, tested not more than 20 per cent. and 65 per cent. of the activity of good Indian drug. Another sample from New York, containing 30 per cent. of cut stems and a small proportion of pistillate inflorescence, possessed not more than 40 per cent. activity. Three samples show 50 per cent. strength compared with Indian drug, two from St. Louis (one containing 7.98 per cent. of extractive and having an excess of leaves, stems, and seeds), and a third (11.08 per extractive) from New York, which had been compressed to resemble the Indian drug and contained only a small proportion of stem and seeds. Another St. Louis sample (13.6 per cent. extractive), with a slight odour, not that of Indian cannabis, tested not more than 60 per cent. activity. This contained a very small proportion of leaves, stems, and seeds. Two New York samples showed not more than 75 per cent. activity. One (11.39 per cent. extractive), of uniform bright green colour, but without characteristic odour, contained over 50 per cent. of seeds and stems. The other (15.47 per cent. of extractive) was free from stems and seeds. An examination of the activity of foreign-grown cannabis was made. Two specimens of Grecian origin approximated 40 and 70 per cent. of the strength of good Indian drug. Two imported from Germany were about 50 and 60 per cent. of the standard, and a sample obtained in New York, labelled "Levant," was also approximately 50 per cent. in strength. An "East Indian guaza" from London tested about 90 per cent.

Four commercial fluid extracts gave results ranging from about half to full strength as compared with same makers' extracts from Indian-grown drug. A fifth fluid extract from African guaza (15.5 per cent. extractive) had an activity between 90 and 100 per cent.

The authors state that their work indicates that if American cannabis is made official difficulty will generally be experienced in obtaining drug which will compare favourably in activity with the Indian variety.

Commenting on the paper on "American-grown Cannabis Indica," the President said that American cannabis had been proposed for admittance to the U.S.P. In a former edition it was included, but was dropped. The American drug has now come into considerable prominence, and this contribution would help to decide the question before the Pharmacopœia Committee. There is no very good test as to just which is the most active constituent. It is an open question. Indian cannabis in this respect is bad. We do not know that this is any better.

CONCLUDING SESSION.

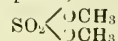
The Vice-President (Dr. Virgil Coblentz) presided at the morning session on Thursday, September 12. There were present—some at a later stage—Professor J. P. Remington, President; Dr. George D. Rosengarten (Powers-Weightman-Rosengarten Co., Philadelphia), Secretary; Otto Raubenheimer, Acting Secretary; Albert Plaut (Lehn & Fink, New York); Dr. Frederick B. Power (Burrighs Wellcome & Co., London); Dr. E. M. Houghton (Parke, Davis & Co., Detroit); Dr. T. B. Aldrich (Parke, Davis & Co.'s Research Laboratory, Detroit); Mr. F. R. Eldred (Eli Lilly & Co., Indianapolis); Mr. Benjamin L. Murray, Ph.C. (Merck & Co., New York); Mr. E. H. Gane (McKesson & Robbins, New York); Mr. Thomas J. Keenan, F.C.S., New York; Mr. Wm. Mair, F.C.S. (Fletcher, Fletcher & Co., Ltd.,

London), besides many others and the speakers after-named.

The Chairman introduced Dr. K. von Buchka, who delivered an address in German, without notes, on

THE TOXIC NATURE OF METHYL ALCOHOL.

He gave a number of instances, based on recent experience in Berlin, of fatalities from the ingestion of the spirit, either as a sophisticant of ethyl alcohol or administered alone. Discussion having been invited, Dr. Rudolph Wegscheider (Vienna) spoke to the topic, and Dr. Richard Lüders (Hamburg) made particular mention of the extremely poisonous nature of the methyl compounds, mentioning dimethyl-sulphate,



two drops of which, having fallen on the skin of a chemist, caused death. Dr. Houghton called attention to some laboratory work conducted by him, in which he demonstrated that the toxicity of methyl salicylate is twice as great as that of ethyl salicylate.

At this stage Dr. Coblentz called attention from the chair to the presence in the hall of Dr. Power, whom he introduced as an old friend of the American Pharmaceutical Association. Dr. Power responded, making graceful acknowledgment of the kindness and courtesy of the Chairman in calling upon him.

Dr. Coblentz subsequently asked Professor Remington to explain the attitude of the U.S. Pharmacopœia authorities with regard to wood-alcohol. The Professor, as Chairman of the Revision Committee, said that the U.S.P. did not recognise wood-alcohol in any form; and it is not used as a reagent or otherwise. He said that tincture of iodine made with wood-alcohol as a solvent is very dangerous; the only use to which the spirit should be put is in the manufacture of varnishes. Professor Remington thereafter expressed the thanks of the section to Dr. von Buchka, adding that the Pharmaceutical Section represented the highest application of chemistry to the healing art.

Discussion, which had been deferred, was then resumed on the paper by Dr. Geo. L. Schaefer (N.Y. Quinine and Chemical Works) on "Quinine Alkaloid and Some of its Compounds." The interesting point was brought out that all of the alkaloidal quinine sold in drug-stores is of a higher alkaloidal content than physicians are aware of. The concentration of strength is due to loss of water of crystallisation, the quinine of the shops containing not more than two or three molecules of H_2O .

At a late stage of the final sessions a paper was read on

INTERNATIONAL STANDARDS FOR COLOURED LIQUIDS, AND A SUGGESTED METHOD OF STANDARDISATION,

by Dr. H. V. Arny. The need of international standards for coloured liquids had been expressed by Professor Felix Ehrlich and Hans Moeller; it had been demonstrated in the daily routine of manufacturers of oils, liquors, and pharmaceuticals, and attempts to meet the need are seen in various colorimetric appliances, some of which were of limited application, either through cost or instability, or unreliability of suggested matching-agents. The author's plan is the preparation of half-normal slightly acidulated solutions of cobalt chloride (red), ferric chloride (yellow), and cupric sulphate (blue). Starting with the possible combination of three colours that would make 12 c.c., he has prepared a set of eighty-eight blends, the tints of which, tabulated in the paper (and shown in a graded series of solutions), range from the pink of cobalt solution to the blue of copper sulphate. To give two examples only of the method of preparation of the standard tints:

	R. Y. B.		
The deepest standard shade in the yellow group is composed of	5	5	2 = 12
The lightest standard shade in the yellow group is composed of	1	11	0 = 12
The deepest standard shade in the blue-green group is composed of	0	4	8 = 12
The lightest standard shade in the blue-green group is composed of	0	1	11 = 12

A system was suggested of colour-nomenclature based on the above proportions of half-normal red, yellow, and blue

solutions employed to make the tints. Dr. Army was cordially thanked for the demonstration.

Dr. Fred Klein (Messrs. Eimer & Amend, N.Y.) submitted a

NEW IRON REAGENT,

intended for analytical and pharmaceutical purposes. Dr. Klein successfully demonstrated its use as a test for selenious acid, phosphates, lactic acid, and as a blood and pepton test. The reagent is prepared as follows:

Ferrous sulphate	...	...	1 gram
Distilled water	...	...	2 c.c.
Hydrogen peroxide	...	...	10 to 15 c.c.
Glycerin	...	...	in equal volume

OTHER PLEASANT INTERLUDES

of the sessions in this section were an address by Dr. Jokichi Takamine, who read a letter of salutation (which he translated from the Japanese) from Dr. Wilhelm N. Nagai, President of the Pharmaceutical Society of Japan. Dr. Takamine explained that at a special meeting held on June 30 three delegates were appointed to the Pharmaceutical Chemistry Section, who were present—two others besides himself. There were in all twenty delegates to the Congress for whom he was chaperon: one of them, Mr. Shiobara, I learned, has a pharmacy in Tokio. The Society has 3,000 members, and has been in existence for thirty years, during twenty-five of which Dr. Nagai has been President, almost from the time of his return from Germany, where he had for some years studied under, and had been assistant to, the late Professor A. W. von Hofmann. Then Mr. Keizo Wooyenaka, who is Dr. Takamine's assistant in his consulting practice in New York, was invited to give an address, which he did in excellent English; and so successfully did Professor Remington put everyone present on good terms with each other that when he invited the third delegate to address the section in Japanese he was accorded a delightful reception.

At another stage felicitations were offered by Dr. Gustav Komppa, of Helsingfors, Finland, who, speaking in German, said that pharmaceutical chemistry is the oldest of the divisions of chemistry, and from it, he considered, organic chemistry was directly evolved. He thought that pharmaceutic and organic synthesis might have been combined in this section. In similar vein Professor Paul T. Walden, of Riga (now President of the Congress), spoke in German on another day, mentioning that he was introduced to chemistry through pharmacy.

Dr. Veith, of Hamburg (Knoll & Co.), was also invited to give one of the pleasing informal addresses which were dovetailed into the official programme. He spoke in excellent English, and regretted that Esperanto is not yet the official language of the Congress. They had been told, he said, that Pharmacy is the mother of Chemistry. The most brilliant achievement of Dr. Takamine's own work had been practically a return to first principles of pharmacy evolved on scientific lines. Dr. Veith then gave an interesting discussion of how he had produced a new synthetic compound of codeine and veronal—cod-veronal—not yet on the market.

Dr. Army proposed votes of thanks, which were most cordially tendered, to President Remington and Secretary Otto Raubenheimer. So concluded what was acknowledged to be one of the most successful of all the twenty-four sections, the attendances having been exceeded only in one section—that of Organic Chemistry.

A scheme for reporting the discussions was tried with the direct co-operation of Mr. Thos. A. Edison, by means of a new machine, the "Reportagraph." It is a modification of the "Dictaphone," but it did not succeed well, so that a return had to be made to stenography. With the reportagraph each speaker had to give his talk from the rostrum under a thing like a candle-extinguisher, which concealed a telephone, and conveyed the words to a recorder, which in turn embalmed them in wax for the benefit of posterity. It was generally regretted that the instrument failed on this the first international occasion of its use; but the last has not been heard of it.

The Resolutions.

Among others the following were adopted. These were all printed in four official languages.

TOXIC DRUG STANDARDS.

Section VIIIb (Pharmaceutical Chemistry) of the Eighth International Congress of Applied Chemistry having received and discussed the report of the International Commission on "Variation in the Activity of Toxic Drugs," resolves that it is desirable that this inquiry be continued and that the International Commission be re-formed and to consist of the following nine members:

Austria, Professor Wilhelm Mitlacher; France, Professor E. Bourquelot; Germany, Professor H. Thoms; Great Britain, Francis Ransom, F.C.S.; Italy, Professor Riga (?); Netherlands, Professor L. Van Itallie; Russia, W. Ferrein, Mag.Ph.; Switzerland, Professor A. Tsehreh; United States, Dr. R. H. True; and the following three Secretaries: Geo. P. Forrester, F.C.S., European Continent; Peter MacEwan, F.C.S., Great Britain; Otto Raubenheimer, Ph.G., United States.

It is further resolved that this Commission be authorised to enlist the co-operation of other persons actively interested in promulgating international uniformity of standards for potent drugs and improvement in their cultivation and collection.

An Italian delegate proposed the name of Professor Riga (?Guaretti) for Italy, and this was unanimously added, nine countries being thus represented instead of eight, as recommended by the section.

ESSENTIAL OILS.

That the International Commission of Congresses of Applied Chemistry be requested to approve the organisation of an International Committee under Joseph P. Remington, and composed of chemical experts approved by this Commission, whose duty shall be to collect information from every available source on chemical products and the essential oils used in pharmacy, and to investigate the tests now in use to prove the identity and purity of said products and oils; also to consider standards and tests with the view of establishing uniformity in the same throughout the world, and to report to the Ninth International Congress the results of its work.

The nomination of members was left in the hands of the officers of the section.

STANDARD FOR DISINFECTANTS.

I. That the disinfectants used in different countries should be controlled by a simple bacterial test capable of being easily effected, and that a committee from this Congress do confer with a committee of the International Hygiene Congress to define such test.

II. That the President of the International Congress of Applied Chemistry be requested to appoint a committee of three to represent this Congress for this purpose.

III. That the International Congress of Hygiene and Demography be invited to appoint a similar committee.

This committee of three was thereupon appointed—Dr. Samuel Rideal, of London, H. Imhoff, and Ed. Bartow.

OTHER RESOLUTIONS.

That Section VIIIb of the Eighth International Congress of Applied Chemistry consider the feasibility of international standards of strength, purity, method of testing, and nomenclature of pharmacopoeial preparations.

For commercial purposes an atomic weight table should be prepared only once in five years, put into use, and be considered a general standard. It should always become effective at a fixed date. . . .

It was pointed out that for commercial purposes, as apart from purely scientific, a certain amount of business dislocation, and possibly legal difference, is apt to occur by even slight readjustments made from year to year. The Commission was of opinion that this should not be passed, but it was ultimately decided that the table for 1912 should hold for commercial purposes until 1915. In the course of the discussion Professor Duisberg proposed, on behalf of the German Chemical Society, that this Congress should meet once in five years and that the atomic weight table should be adjusted coincident with that. The Commission recommended consideration as to whether the tenth Congress should be held in 1918 or 1920.

It was agreed to number the sections consecutively Nos. 1 to 24, Pharmaceutical Chemistry thus becoming No. 17 instead of Sub-section VIIIb.

The Public Lectures.

The scheme of these was that one should be given on consecutive days by one representative from each of the four countries whose languages were the official languages of the Congress. These were delivered in the Great Hall of the College of the City of New York. This is the great university about a mile up town from Columbia and quite distinct from it, maintained by the city at an annual expense of \$600,000. The buildings were erected at a cost of five million dollars. It is the crown of the public-school system, and all the courses of study are open without fee to young men resident in New York City who pass the Entrance examination or present a diploma of graduation from a City high school. No honours or professional degrees are, however, bestowed. Dr. Charles Baskerville is professor and director of the great department of chemistry. The lectures were as follows; each was preceded by a recital on the grand organ:

1 (September 4). "Du rôle des infiniment petits chimiques en chimie biologique" (the part played by infinitely small quantities of chemicals in biological chemistry), delivered in French by M. Gabriel Bertrand, Professor of Biological Chemistry at the Sorbonne and the Pasteur Institute, Paris.

2 (September 9). "Die Neuesten Arbeiten und Probleme der Chemischen Industrie" (the latest achievements and problems of the chemical industry), delivered in German by Geheimrath Dr. Carl Duisberg, President German Chemical Society and Scientific Director of the Farbenfabriken vorm. Friedr. Bayer & Co., Elberfeld.

3 (September 10). The Permanent Fireproofing of Cotton Goods," by Professor William Henry Perkin, Ph.D., LL.D., F.R.S., F.I.C., Manchester.

4 (September 11). "La Foto Chimica dell' Avvenire" (the photo-chemistry of the future), delivered in Italian by Professor Giacomo Ciamician, of Bologna.

5 (September 5). "Oxidation of Atmospheric Nitrogen and Development of Resulting Industries in Norway," by Dr. Samuel Eyde, of Notodden Nitrate Works, Christiania.

6 (September 11). "Synthetic Ammonia," by Geheimrath Dr. H. A. Berthsen, of the Badische Anilin- und Soda-Fabrik, Ludwigshafen-on-Rhine.

The last two were given at joint sessions of the sections on Inorganic Chemistry, Physical Chemistry, Electro-chemistry, and Agricultural Chemistry.

Another lecture was promised by Professor Ira Remsen, of Johns Hopkins University, Baltimore, on "Priestley in America," but that pleasure was not realised.

The most striking new features were: (1) The process for making "synthetic ammonia" which will render the production of sulphate of ammonia independent of the supply of ammonia liquor from coal-gas manufacture, thus opening up a great future for inexpensive fertilisers over illimitable territories, which will need them in the future;

the air, are being sent to California and Hawaii and past the nitrate beds of Chili, to be used in fruit and sugar cultivation; and (3) the decision, once for all, that the credit of the discovery of synthetic rubber is due to Sir Wm. A. Tilden, F.R.S. There was quite a little friendly rivalry on the occasion (September 11) of Dr. Wm. H. Perkin's lecture on "Butylidene and Isoprene," when he exhibited samples of what he called the first synthetic rubber ever made. Dr. Duisberg maintained that Dr. Perkin had not proved the value of his product in practice; it was admitted that the German chemist had the advantage in this particular.

Conclusion of the Congress.

What was styled the "final general assembly" took place in the Great Hall of the College of the City of New York, which was well filled, on Friday morning, September 13, Dr. Nichols presiding. Previous to that the International Commission of Congresses of Applied Chemistry had met to determine much of what was about to be submitted for general approval. This Commission is the supreme Executive of the Congress, is permanent, and consists of the present and past Presidents. It was on this occasion composed of five members—Dr. Morley, Dr. Nichols, Dr. Strohmer, Professor Leon Lindet, and Sir William Ramsay. They sat on one side of the platform attended by the General Secretary, Dr. Bernard C. Hesse, and on the other was an imposing array of speakers. The customary reports from the Presidents of the twenty-four sections were dispensed with. In the Secretary's report the final figures were announced as follows:

Total membership (by subscription of 1 <i>l.</i>) ...	4,500
Total actually attending (including ladies, 254) ...	2,173
Number of countries represented ...	30
Number of papers promised ...	1,180
Number of papers presented ...	900
Number of papers accepted ...	750

INVITATION FROM THE RUSSIAN GOVERNMENT.

Dr. Nichols then announced that he had a letter from M. George Bakhmeteff, the Imperial Russian Ambassador at Washington, which he read. The Ambassador was unable to be present owing to bereavement in his family. He said he was instructed by his Government to invite the chemists to hold their next Congress at St. Petersburg in 1915. This was supported personally by Dr. Iwan Kablukov, who, as delegate of the oldest Russian university (Moscow, at which he is chemistry professor), begged the Congress to accept the invitation of the Russian Government. This, on the motion of Professor Lindet, seconded by Sir William Ramsay, met with unanimous acceptance.

The election of officers was then proceeded with and resulted as follows:

Hon. President, Demetrius P. Konowaloff, Emeritus Professor of Chemistry, University of St. Petersburg; Assistant Minister for Commerce and Industry.

President, Paul T. Walden, Professor of Chemistry in the Polytechnic High School, Riga; member of the Academy of Science, St. Petersburg.

Professor Walden is also Chairman of the following Organising Committee, all resident in St. Petersburg:

M. Chlopine, M.D., Professor of Hygiene.

M. Ipatieff, Doctor of Chemistry, Professor at Michael's Academy of Artillery.

M. Saposchnicoff, a Professor at the same institution.

P. Kossovitch, Professor at the Institute of Forestry and Director of the Bureau of Soils, Department of Agriculture.

W. Tischenko, Professor of Technical Chemistry, University of St. Petersburg.

A. Gorbov, Professor of Chemistry, Engineering High School, Department of War.

Dr. Kurnakov, Professor of Chemistry, Mining Institute, St. Petersburg.

Professor Walden suitably acknowledged the honour, speaking in German, and referred to the work of some noted Russian chemists, among them Mendeléeff. A number of resolutions were voted upon and some forty or fifty individual intimations of thanks for favours received having been passed as one, the President cordially thanked, and the final felicitations said, the great Congress of 1912 was finally dissolved.



PROFESSOR PERKIN AND DR. DUISBERG.

This photograph was taken by Mr. Mayo, of the "American Druggist," as the disputants left the lecture-hall after their argument.

(2) the brilliant demonstration by Dr. Eyde of the new oxidation of atmospheric nitrogen, whereby nitrates are now produced commercially and economically, which will supersede the diminishing supply of Chili nitrate. Many thousands of tons of "Norgersalpetre," made direct from

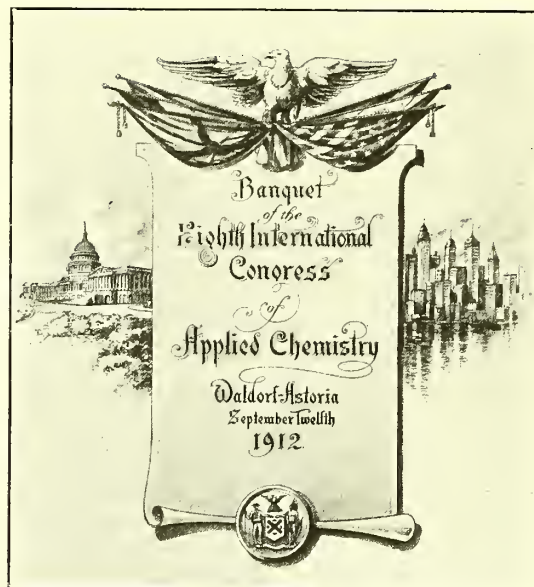
The Congress Banquet.

The fine art of dining has probably reached its zenith in New York; certain it is that no other establishment than the Waldorf-Astoria could entertain 1,000 guests on its highest scale of elegance and perfection and at the same time attend to other functions, not to mention its thousand-odd hotel guests. It was at this hotel also a week earlier (September 6) that the annual dinner of the Society of Chemical Industry was held, Dr. Messel presiding. It was somewhat overshadowed by the Congress itself, but 200 attended, and the proceedings were most successful. The photograph below, taken at dinner, includes the following:

ON THE DAIS.

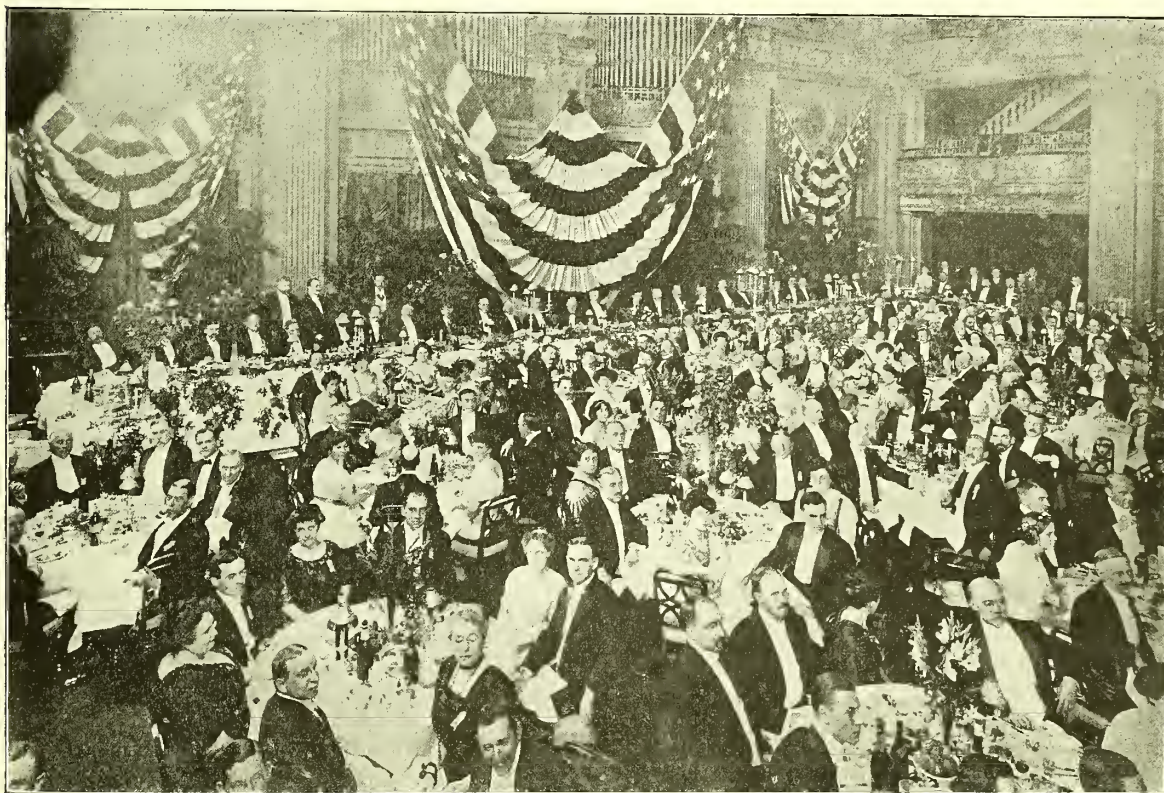
Dr. Edward W. Morley, Dr. Wm. H. Nichols, Mr. Wm. J. Matheson, Dr. Bernhard C. Hesse, Sir Wm. Ramsay, Professor Lindet of Paris, and Dr. Strohmer (Past-Presidents), Dr. Rudolph Messel, Mr. Arthur D. Little (President American Chemical Society), the Mayor of New York, Professor John H. Finley (President of the College of the City of New York), and the following representatives of countries taking part in the Congress: Australia, W. Percy Wilkinson; Austria, Dr. Rudolph Wegscheider; Bohemia, B. Setlik of Prague; Belgium, Paul Haganan (Consul-General, U.S.); Canada, Dr. Anthony McGill (Chief Government Chemist); Chili, Professor P. Diaz Ossa (Professor of Nitrate Technology, University of Chili); China, Dr. Yung Kwai (First Secretary to Legation at Washington); Colombia (South America), Dr. Don. G. Wills; Denmark, Professor Einar Büllmann (of Copenhagen); France, M. Jean de Puligny (Personal Representative of the French Ambassador); Germany, Professor Carl Engler and Geheimrath von Buchka; England, Professor Gilbert T. Morgan, F.I.C. F.C.S.; Italy, Professor Giuseppe Bruni (Professor of General Chemistry at Padua); Mexico, Professor A. Cantariares; Norway, Dr. Alfred Sinding-Larson; Persia, Mirza A. K. Khan; Prussia, Professor Rudolph Hoffmann; Russia, Dr. Paul Walden (Riga); Sweden, Dr. K. W. Palmaer (Professor at Stockholm); Switzerland, Dr. E. P. Treadwell; and Mr. C. O. Mailloux, who made the announcements in the four official languages and had general charge of the elaborate arrangements; he was assisted in the latter by Mr. Walter E. Rowley.

Near the dais were Mrs. W. H. Nichols, Lady Ramsay, Madame Lindet, Professor and Mrs. W. H. Perkin, Professor and Mrs. Baskerville, Dr. and Mrs. Leo H. Baekeland, Professor and Mrs. Bogert, Dr. Giacomo



REDUCED FACSIMILE OF THE COVER OF THE MENU CARD.

Ciamician, Dr. and Mrs. Russell W. Moore, Professor Felix Ehrlich (New York), Mrs. Arthur D. Little, Mr. and Mrs. William J. Evans. There were over 120 such tables, each seating eight. It was at this banquet that the



Banquet at the Waldorf-Astoria, in the Grand Ballroom, September 12.

official felicitations and expressions of thanks for the abounding hospitality were tendered. There were twenty-five speeches from nearly as many nationalities, restricted, however, to four languages, and by the President's skilful steering the two hours' feast of reason and flow of soul seemed all too short. Introducing Mayor Gaynor, Dr. Nichols said that he ably filled one of the most difficult positions in the world. Dr. Finley made a very humorous speech of welcome and farewell on behalf of the Governor of New York State. Mrs. Baekeland, President of the Women's Committee of the Congress, made a graceful and charming speech—which was regarded as a novelty even in New York, and which could be well heard in the large room—on behalf of the many ladies who had come from so many lands. Then came the speeches of all the representatives named above; all were brief and pointed, and all laudatory of the President and officers for their splendid organisation and congratulatory on the great success of the Congress. They were appreciative, too, of the opportunity of meeting so many eminent men from all parts of the world, and for all the personal kindness and generous hospitality and entertainment.

One of the wittiest speeches was that of Professor Engler, one of the three direct representatives of the Kaiser at the Congress. He specially admired the speech by a lady which he had heard but not fully understood. He went on to quote a famous English statesman—Beaconsfield—that the state of the chemical industry of any country is the best index to its development. When he visited Chicago nineteen years ago chemical science in America was a comparatively small thing; now it is a country of flourishing chemical industry. They could drink only German beer then; now there is hardly anything to compare with American beer, and he hoped that they in Germany would not have to come to America for their beer; therefore, he thought, the future chemical progress of America is assured! Professor Morgan said that it was by way of a paradox that the reply to the toast of "Old England" should fall to the delegate of the youngest University—that of the Royal University for Ireland. Professor Bruni, speaking in Italian, admired the union of modernity and tradition to be seen in the United States. There was no speech from Japan, but the whole company stood silent for a minute or two out of respect for the late Emperor. The representative of the Shah at Washington spoke in English, and foresaw in the spirit of organisation and co-operation pervading the Congress an era of universal international good will. Professor Walden spoke humorously in chemical simile, in German. Sir William Ramsay, in a few closing words, again expressed the thanks of all the visiting chemists and friends for all the consideration, hospitality, and deep friendship shown to them on this occasion. This Congress had fully represented not only applied but also pure chemistry: "to the pure all things are pure," but there had hitherto been too little contact between the manufacturer and the professor. This Congress had done a great deal to alter that, and progress would be greatly furthered, in America and especially in Great Britain, on those lines; in Germany there is a closer union between the two and greater unity of thought. A little composition mortar and pestle was presented to each guest as a souvenir—perhaps to convey the pharmaceutical origin of all chemistry.

Tours of the United States.

The scheme of entertainment has only been slightly indicated; all the superlatives and all our available space would be required to describe them adequately. Nor was this by any means completed with the close of the Congress, for the third week, commencing September 16, saw the commencement of two tours—one of nine days and another of thirty days—which were calculated to afford those of the visiting members who could avail themselves of the opportunity some real notion of what America has to show of its more important cities and States, their varied industries and scenic beauties, in the shortest possible time. Both tours cover a wide diversity of scenery, affording members of both parties the charming trip across the States of New Jersey and Pennsylvania to Pittsburgh, the iron metro-

polis of the world; and to Philadelphia, where there are sixteen establishments engaged in purely chemical industry, employing an aggregate capital of \$12,997,000. After Pittsburgh and Niagara Falls, Detroit was visited, and there both parties were entertained on Friday, September 20, by Messrs. Parke, Davis & Co., the whole of the day being spent in that attractive city. Then there was a varied and attractive three-day programme at Chicago. On the "Long Tour" the parties will have covered 9,015 miles by rail, and on the "Short Tour," ending at Boston, 2,285 miles.

The Congress and After.

Pursuance of the policy of presenting, the week it appears, all that matters in chemistry and pharmacy is the reason why (continues our special correspondent) THE CHEMIST AND DRUGGIST should give so complete a *résumé* of this great stocktaking in pure and applied chemistry. Indeed the developments—the revolutions—of present-day chemistry are such that it behoves every pharmacist to keep track, as well as he may, with all that is happening. Nothing was more noticeable than this—that while the purely academic side of chemistry was in powerful evidence, especially in the personalities of great teachers of two hemispheres—the practical and applied side, the commercial side, were of the most general and popular interest. It appealed to staid professors from old-world European capitals that Dr. Bernthson, whose lecture on "Synthetic Ammonia" made him one of the three or four chemical idols, should control at the Baden Aniline Works



TWO PROMINENT CHEMISTS.

On the left is Professor Morris Loeb, President of the Chemists' Club, New York, and on the right Dr. Ludwig Knorr, of Jena.

at Ludwigshafen no fewer than two hundred chemists. That, indeed, might almost be said to be the keynote of the Congress, not "Who's who?" but what is he doing for chemical progress? The American system, too, of general mutual introduction is all in this direction: one is introduced not merely by name but also by one's speciality—writing-paper, gunpowder, baking-powder, canned paint, canned food, or pharmaceuticals—and there is always the mutual exchange of business-cards, often without formal introduction—a sort of "I am so-and-so"—"and you?"

The present movement for internationalism in science brought three great Congresses to the United States in as many weeks. Just preceding ours was that of the Association for Testing Materials, aggregating 2,000 members, and there was a meeting at Washington, the fifteenth, on Hygiene and Demography.

The universality of the German language at New York was another remarkable thing; it is the language of science, but science knows no nationality. It, and French doubtless, will be the chief languages spoken at the next Congress—not Russian, many will be relieved to know. And how well those Germans can think and talk on their feet! It was conceded, too, that they hold the palm in chemical progress, although America runs them very close.

PRESCRIPTION PROBLEM.

WE resume the series of exercises in prescription-reading which were suspended during the summer months. The following prescription should be legibly transcribed on postcards and sent to us not later than October 4. It should be noted that the competition is open to subscribers and their assistants and apprentices. As the educational value of these exercises is widely appreciated we should be glad to receive further examples of obscure prescriptions for use in this column. These should be originals and not tracings.

Mr. L. L. L. X
Lat. Synt. H. 3p
Qu. W. 3p
Zinn B. 3p
My S. 3p
A. H. 3p
L. as d. d.

Prizes are awarded at the discretion of the Editor, and in case of close competition time of posting is taken into account.

Common Diseases of Parrots.

THERE is an old Scotch adage which says,

"An old maid in a garret,
 With her cat and her parrot."

It is of frequent occurrence for the chemist to be consulted regarding the ailments of pussy, and invariably he is able to understand the disease and prescribe accordingly. What more, then, to be able to understand, diagnose, and prescribe for Polly's ailments, as parrots, like all other birds in confinement (domesticated), are subject to several diseases, the majority of which can be prevented and certainly alleviated if even a rudimentary knowledge of the habits, food, and water are understood? It may be here mentioned that food and water play an important part in the health of Polly.

It is quite a common custom or habit for a parrot to pluck out its feathers, thus giving it an unsightly and unnatural appearance. This habit can be attributed to the bird being given animal food, which gradually produces a morbid desire and appetite for blood. It then plucks out what may be called its "beautiful plumage"—its feathers—and sucks the stems to satisfy this morbid desire. To remedy this, withdraw all flesh food, bathe the body, especially the bald parts, with salt and water, and when about dry rub on diluted ox-gall or some bitter and nauseous-tasting preparation.

SCOURING or DIARRHŒA is usually due to a sudden change of food, or the food being of improper quality, sour fruit, etc. To cure, change the food and water, give rice, biscuits and hard-boiled egg, a chili-pod, or, if the bird is pained to any extent, chalk and opium in boiled milk.

FITS are very common and of frequent occurrence, and are invariably due to constipation. The bird shows no premonitory symptoms, unless a few convulsive struggles, drops off its perch, and then lies as if dead. *Treatment*: Dash cold water over the head, or duck the head altogether for a few minutes; give the bird a whiff of liq. ammon.

fort., and pluck a few feathers out of the wing or tail. If successful in bringing it out of the fit, immediate attention must be given to the cause. If constipation, give saffron boiled in milk, or castor oil, if one is proficient in the art of dosing Polly by opening its beak, as it is preferable at this time to administer the medicine per beak. A few drops of oil occasionally is recommended for birds subject to fits.

BAD FEET are due to a dirty and filthy perch. The legs and feet swell and stiffen, and there are often blisters on the sole or lower surface, preventing the bird grasping its perch properly. The treatment is to clean the perch thoroughly, bathe the legs and feet with warm water to which an antiseptic is added. Do this twice daily for at least fifteen minutes each time. Dry well, and rub on camphorated oil. If vesicles or blisters are on the feet, mild astringents such as alum should be applied.

ASTHMA is produced by placing the bird in draughty and cold places, such as between open windows and doors, and allowing it to remain out for too long on chilly nights or days. The disease is characterised by shortness of breath and a disposition to continuously gape. *Treatment*: Keep warm. Moist and warm food, with a dash of cayenne pepper in it, should be given for a week, or until a marked improvement is observed.

DISEASED EYES are also due to cold and gross carelessness in feeding. The eyes become intensely red and inflamed. Bathe with a weak solution of ext. belladonnæ, and dress with boric ointment.

CONSUMPTION is very prevalent among parrots. It is peculiar to certain kinds or breeds, and is characterised by a cough, ruffled and unhealthy appearance of the plumage, sunken eyes, stiffness of the legs, emaciation and prominence of the bones, and partial or total loss of appetite, according to the stage of the disease; but in the earlier stages and in mild attacks an appetite for green food still remains. No cure can be recommended further than good nourishing food, with a few peppercorns. It is generally supposed, and by some maintained, that watercress has great virtue in the cure, and birds in the earlier stage of the disease which take watercress soon make a rapid and total recovery.

"INFLAMMATION" is a very prevalent ailment. It is very painful and fatal and is probably entero-peritonitis. This malady requires immediate and careful attention if life is to be preserved at all. The symptoms are a disposition to continually roost, red skin under feathers, coldness and shivering, swelling of back and extreme parts, and usually gripes. The bowels may either be costive or loose. *Treatment*: If constipated, give magnesia or ol. ricini, and if very pained, tr. opii with the oil and a little brandy. If the bowels are loose, give port-wine or brandy and tr. opii or a chalk and opium pill. Keep warm and comfortable, and give boiled milk and bread, with a little caraway-seed.

MOULTING PARROTS require great care and attention during this period. There is often great pain and weakness, and the time may extend over two or three months. About the only way assistance can be given is by nourishing food and warmth. Saffron and chili-pods can also be given.

SURFEIT is another disease the parrot is subject to, caused by bad water, impure food, and want of sand. The head and back may become covered with sores, discharging a humour that causes a rot or disease at the root of the feathers, making them fall off. Cases of this kind require bathing in an antiseptic solution and dressing with olive oil or ung. acid. boric. et sulphur. Rice-bread should be the food.

DURING the twelve months ending June 1911-12 the exports of chemicals, drugs, dyes, and medicines from the United States of America were valued at \$25,117,000, against \$23,007,000 for the corresponding period of 1910-11 and \$21,416,000 for 1909-10.

BEIRUT OLIVE OIL.—H.M. Consul-General at Beirut reports, under date of May 10, that owing to heavy and unusual rains in the spring of 1911 the olive-crop for that year in the Beirut and Mount Lebanon districts did not ripen till late in October. Consequently there was a shortage of about 15 per cent., and the total yield of oil amounted to only about 10,000 tons.

TRADE REPORT.

The prices given in this section are those obtained by importers or manufacturers for bulk quantities or original packages. To these prices various charges have to be added, whereby values are in many instances greatly augmented before wholesale dealers receive the goods into stock, after which much expense may be incurred in garbling and the like. Qualities of chemicals, drugs, oils, and many other commodities vary greatly, and higher prices than those here quoted are charged for selected qualities of natural products even in bulk quantities. Retail buyers cannot, therefore, for these and other reasons, expect to purchase at the prices quoted here.

42 Cannon Street, London, E.C., September 26.

A RATHER better tone is evident in the drug and chemical markets this week, but market alterations are few and of no great import. Acetone is very firm, and an advance in chloroform has taken place. Antimony is a strong and dearer market, both for crude and regulus. French c.p. glycerin is again higher, and the price is now much above British refined. Japanese refined camphor is cheaper. Prussiates of potash and soda are firm. Among drugs, areca and balsam tolu continue scarce. New Russian cantharides are very dear. Castor oil is firmer for British make, and Belgian chamomiles sell at full prices for good qualities. Hydrastis is easier in primary markets. Sudan acacia sorts are cheaper on spot and to arrive. Manna is in fair demand. High-dried rhubarb is held for an advance, and Japanese wax is firmer. In essential oils, lemon, bergamot, and orange are unchanged. American peppermint is cabled higher, and star-anise oil is dearer. The principal changes are as under:

Higher	Firmer	Easier	Lower
Anise oil (star)	Castor oil (Eng.)	Camphor (Jap. ref.)	Ammonia sulphate
Antimony	Cottonseed oil	Chillies	Mace (W.I.)
Chloroform	Nutmegs	Cod-liver oil	
Glycerin (French c.p.)	Palm oil	Gum acacia	
Peppermint oil (Amer.)	Wax (Japan)		
Rhubarb (H.D.)			

Cablegram.

NEW YORK, September 26.—Business in drugs has improved. Opium is 35c. lower at \$7.25 per lb. for druggists' by single cases. Round buchu is steady at \$1.60. Peppermint oil has advanced to \$2.75 in tins. Spearmint oil is firm at \$4.50. Guarana is dearer at \$2.25. New-crop cascara sagrada is steady at 8c., as is Central and South American copaiba at 48c. Balsam tolu is firm and scarce at \$1.75. Dandelion-root is firmer at 10c. Hydrastis (golden seal) is quiet at \$4.50, and Curaçao aloes is steady at 11c. per lb.

London Markets.

ACETONE is very firm, with little offering at from 80l. to 81l. per ton.

AMMONIA SULPHATE is weak and lower. Grey 25 per cent. London prompt, 13l. 15s.; Hull prompt, 14l. 8s. 9d.; Leith prompt, 14l. 12s. 6d.; January-June, 14l. 15s.; Liverpool prompt, 14l. 10s.; Beckton 25 per cent. prompt, 14l. 1s. 3d.

ANTIMONY is dearer. Business has been done in China crude on the spot at 14l. 5s. per ton, and for October-December shipment 13l. 10s. c.i.f. is quoted. English regulus is quoted from 31l. to 34l. 5s. according to brand. There has been a recurrence of rumours lately as to attempts to form a new Syndicate in the metal; but such reports are generally viewed with scepticism, as they may possibly have been aroused by the much stronger and advancing tendency of the market.

The price of English regulus is now about 4l. per ton above the lowest seen this year. The fact that the refiners have now comparatively small stocks left at their disposal, coupled with the much more numerous inquiries from consumers who for years past have confined their purchases to immediate needs, is now telling on the temper of the market, which is liable to rise very considerably in months to come.

ARECA.—With a continued scarcity, sound Ceylon is worth 25s. on spot and fair Java 20s. per cwt.

BALSAM PERU.—The "Oil, Paint and Drug Reporter" (September 14) states that "one of the most interesting developments of the week has been the action of the New York Collector in returning recent importations of Hamburg balsam Peru as incorrectly labelled, and in assessing these goods as dutiable at 25 per cent. *ad val.* under the provision of the tariff law imposing this duty on chemical compounds on the ground that they constitute a blend or mixture of true balsam Peru and some other balsams or concomitants, and are therefore no longer admissible free of duty as "drugs crude in the original state." It is presumed that the importers will oppose the Collector's ruling. It is common knowledge that this artificial balsam Peru, which is manufactured in Hamburg, has displaced much of the true balsam, the latter being a scarce article. In fact, shipments of this faked stuff are frequently made to South America for the express purpose of adulterating with genuine Peru balsam.

BALSAM TOLU.—With extreme scarcity, the London price is now 7s. per lb., and in New York \$1.75 to \$2 is quoted.

BENZONIN.—The arrivals in the warehouse comprise 50 cases Palembang and 30 Sumatra.

BLEACHING-POWDER.—The prices for next year's delivery are expected to be fixed about the end of this month, and it is practically certain that a substantial advance will take place. Meanwhile from 5l. 7s. 6d. to 5l. 10s. per ton is quoted for prompt delivery.

CAMPHOR.—Japanese refined is easier, with sellers of 1-oz. tablets to arrive at 1s. 6d. per lb. and 2½-lb. slabs at 1s. 5½d. c.i.f. terms. Crude China is quoted on spot at 15s. 6d. per cwt., with retail sales.

CANTHARIDES.—The new-crop Russian is quoted at the very high price of from 3s. 6d. to 3s. 9d. per lb. c.i.f. according to seller. Chinese are inquired for, but there are none here. Business has been done in fine Sicilian flies at 3s. 9½d. c.i.f. for near at hand.

CARBOLIC ACID.—Crystals for prompt delivery 39° to 40° C., 7½d.; 35° 7d. per lb. Crude, 60 per cent. East Coast prompt, 2s. 7d.; West Coast 60 per cent., 2s. 6d. per gal.

CASTOR OIL.—Hull make is 5s. per ton better, pharmaceutical quality offering at 32l. 5s.; first pressing at 29l. 15s. for prompt to December delivery; firsts (January-June 1913) 29l. 5s. per ton in barrels, delivered free on wharf London; oil in tins and cases 50s. per ton extra. Belgian firsts for prompt and forward is 29l. 10s. ex wharf London. Good seconds Calcutta is quoted 3½d. per lb. ex store Liverpool and 3½d. forward, quay terms.

CHAMOMILES.—As previously reported, good qualities, which are scarce, are fetching full prices, from 85s. to 95s. c.i.f. being asked for bold white, and for fair mixed with a few brown 75s. c.i.f. is quoted. Arrivals aggregating 68 bales have taken place.

CHLOROFORM.—Owing to the scarcity and dearth of acetone and the probable advance in bleaching-powder for next year's delivery, the British chloroform-makers have advanced their prices as follows: Pure B.P., 1s. 6d.; 50 lb. 1s. 5d.; 2½ cwt. 1s. 4d.; 10 cwt. 1s. 3½d.; 1 ton 1s. 3d. per lb. Pure B.P. from s.e.v., 5s. 8d.; 50 lb. 5s. 7d.; 2½ cwt. 5s. 6d.; 10 cwt. 5s. 5½d.; and 1 ton 5s. 5d. per lb. Contracts are subject to the benefit of the falling clause.

CINCHONA.—Further particulars in regard to the Amsterdam auction to be held on October 3 show that the 12,548 bales and 820 cases weigh about 1,173,137 kilos., the quinine-content of which is about 71,617 kilos. The total weight of the manufacturing bark is about 1,031,597

kilos., containing the equivalent of 66,530 kilos. quinine sulphate, the weight of the druggists' bark being 141,540 kilos., and containing the equivalent of 5,087 kilos. q.s. The average percentage of quinine in the manufacturing bark is 6.45, against 6.16 in August, 6.17 in July, 6.28 in June, and 6.49 in May. The bark shipments from Java to Europe during the first half of September amounted to 644,000 Amst. lb., against 1,076,000 Amst. lb. in 1911 and 743,000 Amst. lb. in 1910. At the London auction on Tuesday 709 packages were offered, of which 575 sold at the full unit of $\frac{3}{4}$ d. per lb. Of East Indian 307 offered and 253 sold, including Crown, natural broken quill and chips $\frac{3}{4}$ d. to $\frac{3}{4}$ d., stem chips $\frac{1}{2}$ d., and root $\frac{1}{4}$ d. to $\frac{2}{5}$ d.; of Java 402 bales offered and 322 sold, including Ledgeriana, stem chips $\frac{4}{5}$ d., branch $\frac{4}{5}$ d. to $\frac{4}{5}$ d., root $\frac{3}{4}$ d., and twigs $\frac{2}{5}$ d. per lb. Practically all the bark offered for manufacturing purposes was bought by the agent for the B. and S. factory.

COD-LIVER OIL.—Our Bergen correspondent writes on September 23 that the previous quotation of 72s. per barrel c.i.f. has not been maintained, business having been done in finest Norwegian non-freezing quality at 70s. per barrel. In London from 69s. to 72s. per barrel c.i.f. is quoted, according to agent.

COPPER SULPHATE is 2s. 6d. cheaper for prompt, ordinary Liverpool brands offering at 25l. 7s. 6d. and March-May at 26l. 5s.

CREAM OF TARTAR continues very firm at 37s. for 95 per cent., 89s. for 98 per cent., and 90s. for 99 to 100 per cent. Some months ago it was announced that a well-known maker in the Midi had closed his factory owing to financial loss; now it is announced this week that a Barcelona maker is also in difficulties.

ERGOT remains firm, Russian offering at 3s. 6 $\frac{1}{2}$ d. per lb. c.i.f. and German at 3s. 5d. Business has been done in wormy Russian at 3s. 9d., the value of sound being 4s. Old-crop Spanish is offering from the Continent at 4s. 10d. to 5s. c.i.f. according to seller, and new crop, of which there are few offers, is quoted up to 5s. 6d. to 5s. 9d. c.i.f.

GLYCERIN.—The French makers have again advanced their price for chemically pure by 10fr. per 100 kilos. (equivalent to 4l. per ton), and their quotations are now about 30s. per ton above the basis price of five-ton lots naked from British refiners. This advance has given a fillip to the Paris and Marseilles markets, and holders of crude are reserved.

The British Consul in his annual report for 1911 states that Marseilles produced about 8,000 tons of glycerin during 1911, a decrease of 1,000 tons compared with the previous year, which is attributed to the increased consumption of copra oil for edible purposes, which attained 36,000 tons last year. This caused a rise in the price of oils used for soap-making, and in consequence the by-products of edible oils and other fatty substances (which are poor in glycerin) are now being employed for this purpose. In addition to these causes, the increased use of paraffin for candle-making has also been responsible for a decrease in glycerin production. Exports from Marseilles amounted to 6,130 tons in 1911, out of 8,500 tons from the whole of France, as against 7,000 tons in 1910. Of these the United States took the largest quantity; the Netherlands, the United Kingdom, Germany, and Italy coming next in order of importance. Exports to the United Kingdom increased by nearly 100 per cent. During the first five months of the present year (1912) Marseilles exported some 2,300 tons of glycerin, 800 tons to the United Kingdom and 778 tons to the United States of America. These figures would seem to confirm what has been said above, and it is probable that this year will show a further decrease in the production of glycerin in Marseilles. The glycerin-trade with the United Kingdom and the British Colonies is making rapid strides, and both raw and distilled glycerin are now being exported, the latter chiefly to South Africa for dynamite. The highest price recorded for many years was in 1910—namely, 10l. 6s. per ton for dynamite glycerin, 8l. 12s. 6d. per ton for saponified glycerin, and 7l. 7s. 6d. per ton for crude glycerin. But these prices were not maintained in 1911, the United States having bought sufficient glycerin to last them for some time. In June 1911 the prices were 9l. 2s. for dynamite glycerin, 7l. 7s. 7d. for saponified glycerin, and 6l. 2s. 8d. for crude glycerin. In December these had fallen still further to 7l. 3s. 6d., 5l. 17s., and 4l. 12s. 6d., and in June 1912 the

prices were 7l. 3s. 6d., 4l. 19s., and 4l. 16s. respectively, with an upward tendency.

GOLDEN SEAL.—Prices in New York have been reduced by 15c. to \$4.50 to \$4.75, in view of an increase in spot supplies and restricted export demand.

GUM ACACIA.—Soudan sorts are easier, sales having been made on the spot at 39s. to 40s. for fair half hard, and for arrival prices from Cairo are easier at 36s. to 37s. per cwt. c.i.f. Senegal is quiet, with sellers to arrive at 40s. 6d. f.o.b. Bordeaux for Bas de Fleuve. A new parcel of about 120 packages good pale small soft Kordofan sorts has arrived, for which 63s. to 65s. per cwt. is asked.

IPECACUANHA.—Further business has been done in Matto Grosso description at 9s., and in Minas sales have been made for export at 8s. 6d. Cartagena is still very scarce on the spot, 8s. 9d. being the nominal value.

KINO is inquired for, the sale of East Indian last week having stimulated interest in the drug; nothing, however, is available in first-hands.

KOLA.—Continues scarce; an arrival of good West Indian is expected shortly.

LAVENDER-FLOWERS.—French are quoted 45s. for fair, 55s. for good, and down to 30s. c.i.f. for the cheaper qualities. Spanish are quoted 22s. 6d. c.i.f.

MENTHOL.—Business for consumption is chiefly for tins, up to 29s. 6d. per lb. having been paid; single cases are quoted 28s. 6d. For Kobayashi-Suzuki combined with oil 28s. has been paid for October-November and 29s. c.i.f. for September-October.

MORPHINE.—Hydrochloride-powder is quoted from the makers at from 10s. 3d. to 10s. 6d. per oz., according to quantity.

MUSK is offered in very limited quantity, the value of good Pile I blue skin Tonquin pod being 80s., and old style well-trimmed Pile I 60s. per oz.

OILS (ESSENTIAL).—*Star-anise* oil is dearer, business having been done at 5s. 10 $\frac{1}{2}$ d. to 5s. 11d. per lb. c.i.f., but sellers now ask 6s. 1d. for near at hand; on the spot business has been done up to 6s. 2d. to 6s. 3d., but at the close 6s. 6d. has been paid, very little being obtainable. *Cassia* is unaltered, with spot sellers of 80 to 85 per cent. at 3s. 9 $\frac{1}{2}$ d., 75 to 80 per cent. at 3s. 9d., and 70 to 75 per cent. at 3s. 8d.; to arrive, 3s. 7d., 3s. 6d., and 3s. 4d. per lb. c.i.f. is quoted respectively. *Cinnamon-leaf* oil is quoted at 2 $\frac{1}{2}$ d. per oz., at which business has been done. *Lemon-grass* is quoted on the spot at 4 $\frac{1}{2}$ d. per oz., and at 3 $\frac{3}{4}$ d. c.i.f. Ceylon. *Citronella* is quiet, with spot sellers of Ceylon at 1s. 7d. *Lemon* remains unchanged, prompt shipment offering at 7s. 10d. to 8s. and forward shipment 7s. 2d. to 7s. 4d. per lb. c.i.f. There are several good inquiries for spot parcels or for prompt shipment; spot values are from 8s. to 8s. 3d. for best brands. *Bergamot* of new crop for forward delivery is quoted 27s. c.i.f. for 38-per-cent. esters. *Orange* is unchanged.

OILS (FIXED).—*Linseed* is steady at 34s. spot in pipes, 34s. 6d. in barrels. *Rape* is quiet at 32s. spot and 33s. 6d. for English refined in casks. *Cotton-seed* oil is 6d. dearer at 25s. 9d. for crude, 27s. for ordinary pale refined, and 30s. for sweet refined. *Coconut* is steady at 41s. for Ceylon and 46s. for Cochin. *Palm* is 3d. higher at 33s. 9d. for Lagos. *China Wood* oil is dearer at 35s. spot. Petroleum is unchanged at 7 $\frac{3}{4}$ d. for spot Russian, 8d. to 8 $\frac{1}{4}$ d. for American, and 9d. to 9 $\frac{1}{4}$ d. for water-white. Turpentine is quiet at 30s. 7 $\frac{1}{2}$ d. to 30s. 9d. for American on the spot.

OLIBANUM.—Business has been done in fair to good drop at from 46s. to 50s. per cwt.

OPIMUM.—Smyrna shippers are asking higher prices, quoting 20s. 3d. for 11 per cent., but no business is reported; on the spot, Turkey druggists' is offered at from 21s. 6d. to 22s. for 11 to 11 $\frac{1}{2}$ per cent.

A Smyrna correspondent writes on September 13 reporting a quiet week, with sales consisting of five cases new extra Karahissar at 22s. and one case new Aksar at 21s., all for Continental consumption. Japan and American buyers have not come forward this week, but it is stated they will do so next week. The arrivals in Smyrna amount to 1,197 cases, against 612 at same date last year.—A Salonica correspondent writes on September 19 that, after several

quiet days, the market became more active on account of business for American consumption. About forty cases have been sold during the past two or three days, the highest price attained being 372 piastres per oke. Buyers appear less reserved than they have been recently; this has encouraged holders, who revert to their former pretensions of price; market closes very firm.—A Constantinople correspondent writes on September 20 that the sales for the week amount to 41 cases druggists' (of which two were for speculators) at from 272 to 292 pirs.; also 12 cases "soft shipping" (three for speculators) at 312 pirs., and two cases inferior Malatia at 290 pirs. Market is tending upwards in consequence of the presence of two buyers on the market. Several consider that present prices are reasonable enough for buying large quantities, but our opinion is that it is impossible this year to formulate a definite view. The arrivals in Constantinople amount to 1,630 cases, against 804 cases in 1911, and consist of 887 druggists', 484 "soft," and 259 Malatia; the stock amounts to 1,311 cases, against 582 cases, and consists of 688 druggists', 419 "soft," and 204 Malatia.

OTTO OF ROSE.—It is stated that sales of the new crop have been made by a leading shipper at 59s. per English oz.; for last year's crop 60s. per English oz. is quoted for a good brand.

PEPPERMINT OIL.—American tin oil continues to advance, our New York cable to-day (Thursday) quoting \$2.75 (=11s. 4d.) in New York. Several agents here do not quote, while others ask from 11s. 9d. to 12s. to arrive, and for *Todd's* 12s. 3d. is quoted. A private cable reports the New York market as "excited." H.G.H. is quoted 15s. to 15s. 3d. London terms, and Kobayashi on spot is 5s. 11d. to 6s., and Suzuki 5s. 10d., at which sales have been made; for arrival 5s. 9d. c.i.f. is quoted.

POTASH PRUSSATE is firm at from 6½d. to 7d. per lb., and *Soda* at from 3½d. to 4d. It is still difficult to secure offers for next year, as makers are holding for higher prices.

QUICKSILVER.—First-hands remains unchanged at 8l. 5s. and second-hands at 8l. There has been an active demand for the China market this week.

QUILLARIA is quiet but steady at from 25l. 10s. to 26l. per ton ex store Liverpool.

QUININE.—Next week's bark-auction at Amsterdam, when the exceedingly heavy quantity of 71 tons quinine "in the bark" will be offered, may determine the immediate course of prices. Meanwhile the second-hand market is nominally 8½d. for the usual brands of German sulphate.

RHUBARB.—Although the prices paid in auction last week for wormy High-dried were decidedly cheaper, several holders of sound description are now asking the higher prices of 1s. 4d. for good flat (¾ pinky) and 1s. 3d. for medium (½ pinky) break. This is in consequence of sellers being unable to deliver on their c.i.f. contracts for reasons given last week.

SALEP is quoted at from 1s. 10d. to 2s. per lb. as to quality.

SARSAPARILLA.—The arrivals comprise 19 bales red Native-Jamaica; a fair demand is reported for this description.

SENNA.—The *Clan Macalister* has brought 1,096 bales Tinnevely from Tuticorin, also 394 bales *in tr.* In second-hands there has been a fair demand for Tinnevely, principally for the cheaper grades.

SHELLAC.—Quiet, with small sales on a basis of 68s. to 69s. for fair TN quality; for arrival TN for October-December shipment is quoted 67s., and November-December 67s. 6d. c.i.f. AC Garnet for November-December is 61s. 6d. c.i.f. Futures are steady, sales including October at 68s. to 69s.

SPICES.—At auction 940 bales Zanzibar *Cloves* offered, and 520 sold, including fair, rather mixed with stems, at 7½d.; privately the market is firmer at 7¾d. spot, and to arrive there are buyers of October-December at 7½d. (sellers 7¾d.), and January-March 7½d., c.i.f.; for September-October shipment 7½d. has been paid. The spot market for *Pepper* is quiet at 5½d. for fair Singapore, fair *White* being quoted 9d. and Muntok 9½d. *Chillies* were easier at auction, 95 bags East Coast African selling at 34s. to 37s. 6d. for fair to good; Japan were bought

in at 32s. 6d. Of *Ginger* 43 cases Calicut sold, without reserve, at 55s. for small cut and 78s. for bold cut; 196 bags washed rough Cochin wormy were bought in at 30s. West Indian *Nutmegs* were in large supply, and sold with good competition at full prices to ¼d. to ½d. per lb. advance; 100 bags fair Ceylon *Cinnamon* chips were bought in at 2d.; 225 packages W.I. *Mace* sold at steady rates to 1d. cheaper, but good pale was rather firmer; good to fine pale sold at 2s. 4d. to 2s. 7d., ordinary to fair 2s. 1d. to 2s. 3d., and broken 1s. 9d. to 2s. 2d. per lb.

SULPHUR.—*Flowers* are quoted 6l. 10s. to 6l. 12s. 6d., and *roll* 6l. 5s. to 6l. 7s. 6d. ex wharf London.

TARTARIC ACID is very firm at 1s. 1d. for foreign, English being quoted at 1s. 1½d.

WAX, CARNAUBA.—Waxy-grey is unobtainable on spot, and for chalky 157s. 6d. to 160s. per cwt. is asked.

WAX, JAPANESE.—Retail sales of good squares have been made on spot at 48s. to 48s. 6d., and for arrival 45s. to 45s. 6d. c.i.f. is quoted.

The Coca Question in Java.

The proposals put forward by Messrs. Sol and Van Wely (see *C. & D.*, July 27, p. 173) that Java coca-planters should form a union and erect a factory in Java for the extraction of cocaine are still being discussed. The "Tijdschrift voor Nijverheid en Landbouw" in a recent article on this subject points out that since 1907 the output of coca-leaves from Java has increased by 300 per cent., while the consumption of cocaine is diminishing owing to legislation against its abuse in various parts of the world. The fall in price of coca-leaves is due, therefore, to over-production, and not to concerted buying at low rates by cocaine-manufacturers. The writer goes on to say that Java coca-leaves contain no cocaine, so that a crude cocaine comparable with the Peruvian product cannot be made from them. If the proposed Java factory made a crude alkaloid the latter would consist mainly of cinnamyl cocaine, which could be bought only by the European factories that now buy Java leaves, so that the planters would be no better off than before. Further, the manufacture of even a crude alkaloid in Java would be more expensive than in Europe, owing to the cost of supervision by Europeans and the high price of chemicals. Shippers would also charge high freight rates on such a valuable material. In view of these facts planters are urged to work for a world-wide reduction in the output of coca-leaves. The other side is stated in a report of a meeting of coca-planters held, on the initiative of Messrs. Sol and Van Wely, at Bandoeng in July last. Dr. de Jong said at this meeting that the fall in prices paid for Java coca-leaves could not be due to over-production, because the price of cocaine had remained steady at 170 gulden per kilo. for some months, and it was well known that one German maker had contracted with a Java planter for all his leaves for several years at a good price, and another speaker added that the same maker was now laying out a coca-plantation of his own in Java. No decisions were arrived at at the meeting, but a small committee was appointed, which is to consider and report on the following among other matters: The financing of the proposed bond, the contributions to be paid, the number of factories (one or several) to be erected, and whether a crude or pure alkaloid is to be made.

Sicilian Essential Oils.

Mr. Ig. Siles, of Acireale, having made a personal and careful investigation as to the present crop and market conditions, writes to his London agent, Mr. Charles Westphal, as follows: "I hasten to inform you that owing to an abundant rainfall the prospects for the bergamot, lemon, and orange crops are greatly improved. It is also evident now that the July blossoms of the lemon-trees have produced such a quantity of small lemons that the shortage, so widely complained of, has thereby been more than compensated for, so that we may reckon on a quantity of lemons equal in number, but larger in weight, than last year. The earlier development this year of both lemons and bergamots will oblige manufacturers to open their factories already in November, as against the end of December in the two preceding years, the fruit yielding in these two months a larger quantity of oil than later on. Owing to the high prices of lemon oil, the export of fresh lemons, already handicapped by the enormous increase in the Californian production, will be greatly reduced and in most instances made impossible. All lemons not exported must be worked for oil, and the higher the price of the oil during the time of the production the greater will be the fall next spring and summer. And, given a continuance of present crop and market conditions, a production of lemon oil larger by about

50 per cent. than that of the last crop may be looked for. The bergamot crop will also be at least as large as regards the amount of fruit, but far greater in weight, than the last one. It is likewise apparent already that the new oil will be richer in esters (by about 10 per cent.) than that of the last crop. The cyclone of last January caused a shortage of about 50,000 lb. of oil; but if no such misfortune should befall us again in the coming season, there will probably be from 25 to 30 per cent. more bergamot oil produced than last season. Orange oil is quiet, a good crop being anticipated."

Java Cinchona.

Some further information on the recent cinchona negotiations is given in a note published in the current number of "De Tijdschrift voor Nijverheid" by Heer von Winning. From this it appears that each cinchona-planter had been asked to state in writing before the meeting what quantity of bark he could supply per annum, and to everybody's surprise it turned out that the total thus guaranteed was below that required by the offer made by the Syndicate of Quinine-makers—viz., bark equal to 550,000 kilos. of quinine sulphate. It appears, therefore, that the replacement of cinchona by tea and other products, which has been going on for the last few years, is already having its effect, and there is some prospect of an eventual scarcity of bark. The Syndicate also proposed not to buy bark from speculators, so that there is little risk of bark being stored for a rise in price and then suddenly thrown on the market. Heer von Winning, however, points out that there are still many difficulties ahead. The contract has not yet been drawn up, and he points out that this must be of a simple and perfectly definite character in order to avoid risks of dispute among the numerous interests involved, and he anticipates a long and arduous task for the Commission that has undertaken this work. A further difficulty lies in the fact that up to the present deliveries of bark on the Amsterdam market have been irregular, and the Syndicate asked that in future a definite quantity may be marketed about once in five weeks. To avoid any trouble arising in this way, Heer von Winning suggests that the Amsterdam Commission should at each sale allot the bark available among the makers according to their requirements, and that until a running stock has been accumulated the present reserves, of which the Syndicate has agreed to take the equivalent of 50,000 kilos. of quinine sulphate, should be drawn upon. He also proposes that the total annual output agreed upon should be allotted to the various planters in Java *pro rata* on the figures they submitted at the meeting on July 20, and that each planter must be held responsible for the delivery of the quantity specified for him. Pharmaceutical bark, he suggests, should be sold separately.

Manchester Chemical-market.

September 24.

There is a fair amount of business passing, but both buyers and sellers agree that order-books are not well filled. We have heard nothing at the time of writing of any revision in prices, but as another advance in fuel has been declared, although small in value, it is very possible that this will tend to appreciate the manufactured article. Meantime miscellaneous goods are on the "top" side. White powdered arsenic is about unchanged, but sulphate of copper, although there is little change to note for prompt delivery, is higher for spring sales. Prompt is about 25*l.* 5*s.* to 25*l.* 12*s.* per ton, delivered Manchester. American brown acetate of lime is quoted 7*l.* 10*s.* and grey 13*l.* 10*s.* per ton c.i.f. Muriatic acid (tower salts). 30° Tw., 1*s.* 5*d.* per carboy; ditto cylinder, 30° Tw., 2*s.* 9*d.*; nitric, 80° Tw., 15*l.* per ton; sulphuric acid (fuming 70-per-cent.), 6*l.*; pyrites, 168° 3*l.* 2*s.* 6*d.*; ditto 150°, 30*s.*; ditto (free from arsenic, 145°), 35*s.*; sulphurous (solution), s.g., 1.025, 3*l.* per ton. In other respects there is little change to note. Coal-tar products are rather quiet, and movement is generally slow. Sulphate of ammonia is about 14*l.* 10*s.* per ton f.o.r. Manchester.

THE BANDONG QUININE-FACTORY.—At a general meeting of shareholders held in Java on August 19 a dividend of 10 per cent. was declared for 1911 on the ordinary shares and 47.86 florins on each founders' share.

THE IMPORTS OF DRUGS AND MEDICINES into the port of Basra (Persian Gulf) during 1911 amounted to 7,550 packages, valued at 26,425*l.*, against 8,036 packages, valued at 28,126*l.*, in 1910. India and the United Kingdom were the chief suppliers.

CHINESE CAMPHOR.—The exports from Kiukiang, China, during 1911 amounted to 2,787 cwt. (24,064*l.*), against 3,162 cwt. (27,032*l.*) in 1910 and 2,932 cwt. (24,886*l.*) in 1909. Camphor-oil exports were: 1911, 2,940 cwt. (6,327*l.*); 1910, 3,555 cwt. (8,243*l.*); 1909, 2,924 cwt. (9,034*l.*).



Memoranda for Correspondents.

All communications must be accompanied by the names and addresses of the writers, otherwise they cannot be dealt with. Queries by subscribers on dispensing, legal, and miscellaneous subjects connected with the business are replied to in these columns if they are considered to be of general interest. Letters submitted for publication (if suitable) should be written on one side of the paper only. Their publication in "The Chemist and Druggist" does not imply Editorial agreement with the opinions expressed.

Oil of Backhousia Citridiodora.

SIR,—Since my last letter in THE CHEMIST AND DRUGGIST dealing with this oil I have received several inquiries regarding it. During the last month or so several tons of leaves have been distilled in the Brisbane district, a sample of which I have before me as I write. The yield of oil is somewhat small. For the purpose of record the distiller, Mr. T. Ingham, tells me that from a batch of 33 cwt. of leaves and twigs he obtained 26 lb. of oil. Owing to the difficulty in obtaining labour for picking leaves the production will always be spasmodic, and the tendency will be to dispose of it locally, as far as possible, especially as the producer thinks he did not have a fair deal with the first consignment that went to the London market. At that time it was possible to market a considerable quantity of oil, but owing to the destruction of the trees for the purpose of clearing the bush and the greater demand for labour in Queensland at present, it is no longer possible to obtain the same quantity of oil.—I am, yours faithfully,
College of Pharmacy, Brisbane. R. C. COWLEY.

Essential-oil Analysis.

Neutral v. Acid Sulphite.

SIR,—In their paper on the "Unification of Processes for Commercial Analysis and Valuation of Essential Oils," read before the Pharmaceutical Chemistry Section of the International Congress of Applied Chemistry and reported in the C. & D. of September 14, index folio 445, Messrs. J. C. Umney and E. J. Parry advocate the use of acid sulphite of sodium in preference to the neutral for the determination of aldehydes in essential oils other than lemon oil, instancing as such oils, cassia, cinnamon, and lemongrass. No reason is given why the same process should be used for the determination of aldehydes in all oils other than lemon oil; so that assuming the correctness of Messrs. Umney and Parry's contention that in the case of lemongrass oil acid sulphite (which is admitted to give results about 4 per cent. higher than neutral sulphite) affords a better measure of the value of the oil to the ionone-manufacturer, and for that reason is a better process to be generally adopted for the analysis of this particular oil, there would hardly appear on this account to be good and sufficient reason for adopting it also in the cases of cassia and cinnamon.

On analytical grounds we consider the neutral sulphite method to be distinctly preferable, and for the following reasons:

With the acid sulphite the reaction is difficult to follow; also, an emulsion is formed with the bisulphite compound and the non-aldehydic portion of the oil, which requires prolonged heating and shaking before it is got rid of, and especially is this true in the case of cassia oil containing added resin. This trouble does not occur to anything like the same extent with the neutral sulphite. With the latter separation of the non-aldehydic portion of the oil is cleaner and quicker and a better meniscus is formed, allowing of more accurate reading; while reaction takes place more readily, its progress is easily followed, and its end seen by the absence of alkalinity on shaking (showing that the whole of the aldehyde has combined with the sulphite). We think that analysts who have actually used the two processes will be in agreement as to which of the two they would sooner operate. Add to these

technical reasons the admitted fact that the normal sulphite method yields more accurate results, and the arguments in favour of perpetuating the less accurate and less desirable method merely on the score of custom appear to rest on an insufficient basis.

One of us (C. A. Hill) in collaboration with Mr. J. C. Umney (one of the joint authors now advocating the acid sulphite process), in the monograph on oil of cinnamon proposed for the next edition of the British Pharmacopœia and accepted by the Committee of Reference to the General Medical Council, specified the use of normal sodium sulphite in the determination of cinnamic aldehyde ("P.J.," February 12, 1910). This was attacked by Mr. Parry in his article in the *C. & D.* of September 16, 1911, on the ground of "established custom on the London market and abroad where analyses of, for example, cassia oils are performed." Messrs. Umney and Hill, in their reply to Mr. Parry (*C. & D.*, September 23, 1911), adhered, after due consideration of the question, to their recommendation, stating "we prefer the neutral sulphite process, and we fail to see how the Pharmacopœia monograph for cinnamon oil affects a Mincing Lane 'monograph' for cassia oil." In the same letter they wrote:

"Mr. Parry appears to have mistaken the intention of the Committee in framing pharmacopœial monographs. It was not their intention to draft monographs which should form an easy basis for Mincing Lane buyers nor for Mincing Lane analysts; still less to frame tests which should yield high results, or even concordant results, at the expense of truth. It is, of course, quite well known that throughout all chemical and physical determinations processes may yield very concordant and quite inaccurate results."

These views the undersigned now wish to endorse, and to couple with them the hope that Mr. Umney and Mr. Parry may be induced not to employ the weight of their great authority, separately or combined, to perpetuate a less accurate and less desirable process merely for convenience sake. Whatever may be done for the convenience of buyers and sellers in commercial contracts, the Pharmacopœia, at all events, should be untrammelled by such considerations.

Yours, etc.

CHARLES ALEX. HILL.

T. TUSTING COCKING.

The Analytical Laboratory,

The British Drug Houses, Ltd., London.

New S.V.R. Licence.

SIR,—Perhaps it may be of interest to you and to your readers to know that the supply of rectified spirit under the new wholesale dealers' licence is definitely limited to the medical profession, qualified chemists, and medical and scientific institutions. We have recently written to the Commissioners to ask whether we are at liberty to supply veterinary surgeons, and the reply is in the negative. Is this not conducive to the increased use of methylated spirit by members of the veterinary profession and quite contrary to the spirit of the Act?

Yours faithfully,

Per pro. JOHN RICHARDSON & CO., LEICESTER, LTD.,
H. N. SIROUD, Director and Secretary.

[The point was fully considered and every effort made to extend the provision when it was going through Parliament, but the authorities would not agree, and those who promoted the new licence considered that it was better to take what could be got than nothing.—EDITOR, *C. & D.*]

Irish Pharmaceutical Council Election.

SIR,—The time draws near for the annual Council election of the Pharmaceutical Society of Ireland, and I would strongly appeal to the younger members to come forward as candidates and endeavour to infuse a new spirit in our Society. In view of the possible extension of the medical-benefit section of the Insurance Act, it would be wise to secure a strong and representative governing body conversant with the needs of latter-day pharmacy and its keen competition.—Truly yours,

PHARMACIST. (60/8.)

The Rise of Drug-stores: Why?

SIR,—Regarding the interesting letter from "Felix" will he, for the edification of your readers, explain who it is that now "looks up to him" in his capacity of a "branch manager"? Is it the management of a leading

firm of cash chemists, the general public, or does he refer to his fellow-employés?

Yours,

SENEX. (53/3.)

SIR,—I think a good many assistant pharmacists must have felt the attraction of the stores after reading the ingenuous letter of your correspondent "Felix." His objections to working for the private "governor," based on his own experience, are that there is no chance for development, and that there is a total lack of encouragement and co-operation. In the drug-stores, however, he has found that the exact reverse of this obtains. It seems to me that if this be so, no stronger argument can be put forward for us to throw in our lot with the stores. But then your correspondent "Infelix" comes forward and, brushing aside the statements of "Felix," exhorts us to play the man and to flee youthful recreations, such as billiards and football, and goes on to tell us that if we are sufficiently good labourers there are hundreds of pharmacists waiting for the opportunity to press 250*l.* to 500*l.* upon us. If this be other than a figment of "Infelix's" imagination, why include the stores in our ambitions?

Yours faithfully,

PERPLEXED. (59/61.)

SIR,—"Infelix" in his remarks in reply to "Felix" is too indiscreet to be allowed to pass unnoticed. "Felix" is living in a fool's paradise," he says; but, judging by his remarks, I would opine that he turns the tables on himself. As one who may be supposed to know, having "dugged" into both, I may be allowed to make a few remarks. That pharmacy is going to the dogs is open to debate, but I cannot forget a remark once made to me by a leading West-End pharmacist when interviewing him for a situation. I commented upon the "profession," when he immediately interrupted me, and in very forcible language explained that I should have said "business." "Felix" has already mentioned that the stores hold all the finest stock of modern pharmacists, which can be proved by the fact that the private pharmacist, in the last few years, has increased his salaries by at least 20 per cent., simply because he cannot obtain men and must do his best to buy them back again, although in that he can never hope to succeed—proof positive that not only has the "cream" gone but that the "milk" is turning also. Would "Infelix" oblige us uncivilised pharmacists with a few more details *re* those willing to pay salaries of 250*l.* to 500*l.*? He accuses "Felix" of playing to the gallery, and succeeds remarkably well in doing so himself. We are serving "Mammon." Yes! and "Infelix" is serving Self. Which will succeed? There is no help for it—pharmacy as a profession must go, and we must be instrumental in its complete defeat. You cannot save yourselves now if you would; you have crossed the limit and must reap what you have sown, injustice and discontent.

VERITAS. (58/67.)

SIR,—I must thank Mr. Bolshaw for his kind and interesting letter in response to mine of September 14. He seems to have grasped the main purport of my letter and added interest to it. I could just fancy "Infelix" as one of the chemists I aimed at—a man working his establishment on unqualified men or qualified at the rate of about 90*l.* per annum. I must show him the error of his ways and remind him that when he tries to argue upon any subject, to get hold of the subject and not hover round it like a moth round a candle. He commences by telling me that I am living in a fool's paradise. The qualification necessary for a fool's paradise is to be a fool, and since it takes a wise man to be a fool, I thank him for the compliment. I do congratulate myself on having found a situation which will give scope for my abilities. The opinion of "Infelix" is that pharmacy is not going to the dogs. That is the most reasonable expression throughout his letter, but even from that I beg to differ. If all chemists were fraught with the same intelligence and foresight as "Infelix" I must admit that pharmacy would go to the dogs very quickly. I agree with him on one point: he describes my anxiety to gain more customers as a laudable object; it is a laudable object, but after all it is only one's duty. To continue his metaphor on the cream and buttermilk, I may say that he is the latter, but

in his case it has gone sour. I am pleased to be looked up to as a manager. Why? Because I know I have the confidence of the public, and having the confidence of the public I can do my best for my employer. If "Infelix" fancies that all pharmacists should be their own masters and make 200% per annum, he does not know of what he is talking. Every man has not the capital to commence on his own account. He says there are hundreds of pharmacists to-day ready and willing to pay 250% to 500% per annum to qualified men with brains and the ability to use them. I ask "Infelix" to give me the names in confidence of five or even one who is ready to do this. I know many men with brains and the ability to use them that cannot rise above 150%, except by going to the stores. When I wrote my letter I merely wished to prove by practical facts how my life had failed to find pharmacy equal to my expectations. I am now more convinced than ever in those ideas since "Infelix" proves to me that all I said was true,

Yours,

FELIX. (42/34.)

[We have received other letters on this subject, critical of "Infelix's" statements.—EDITOR, C. & D.]

A Trip in the United States.

SIR.—I returned last week from a ten weeks' tour of the United States of America. I visited some of the larger cities, including New York, Chicago, Washington, and Boston. I was much struck with the completeness of the American drug-store, each department is kept separate — soda-fountain, fancy goods, dispensing, sundries, and photographs. Cigars are a big side-line in the drug-store. The shops are elaborately fitted, and good use is made of the windows in the big cities. The drug clerk is paid from \$15 to \$18, the qualified pharmacist getting \$25 to \$30 a week. I had a look through several stores, and was greatly surprised to see the large and varied stocks carried, and occasionally received a shock, especially when I visited a pharmacy on one occasion and discovered the shelves at the back of the dispensing department filled with wall-paper. This is a side-line with country druggists. More proprietaries seem to be used and a far greater range of drugs and chemicals than is usually seen in an English pharmacy. I noticed plenty of German chemicals, but very few of English manufacture. Nearly every pharmacist is associated with some drug company, such as Rexall and Nyal. These firms put up all kinds of nostrums, including tablets, etc.; the pharmacist is appointed agent and makes a special push of the lines manufactured by the company, which show an excellent profit, I understand; but it seemed strange to me this surrender of the individuality of the pharmacist. Some of the smaller druggists complained of business and spoke of the large-store competition. One pharmacist in New York, on learning that I was an English chemist, remarked that "You belong to a good country; I wish I was there." So there is hope for the English chemist yet. The druggist in the States seems to get plenty of dispensing; the doctor frequently has his office over the drug-store, and the druggist and the doctor work together. Dispensing charges are good—50 cents (2s.) seems about the usual charge for an 8-oz. mixture. The cost of living is much higher than in England—quite 30 to 40 per cent. more—and the hours of labour are longer. Many of the drug-stores open at 7 A.M. and close at midnight. In chatting with the manager of a large store in Boston I was told they kept a double staff, the duties being from 7 A.M. to 3 P.M. and from 3 P.M. to 12 midnight; but, generally speaking, hours are long, and there appears to be no early-closing day as in England. All-day Sunday trading seems general in the big cities. I was greatly impressed with the vastness and cosmopolitan character of the U.S.A. Some cities are almost wholly populated by Germans, while you come across Chinese, Italian, and negro quarters in almost every town. One misses familiar English names, especially on the advertisement hoardings, and goods of English manufacture seem few and far between; in fact, England and the English do not seem much in favour. Still "England is good enough for me."

Yours faithfully,

Stafford, September 20.

FRED. R. SMALLMAN.

Legal Queries.

Consult "The Chemists' and Druggists' Diary," 1912, pp. 435 to 454, where most legal difficulties are anticipated, before writing about your difficulty.

R.2 (53/41).—The use of such an expression as "R.234" in connection with a medicine for human use does not make it liable to stamp-duty unless it is registered as a trademark.

R. N. (175/16).—You may open your shop between 6 and 8 P.M. on the half-holiday for the sale of medicines and other exempted goods only, provided there is no applicable early-closing order in your locality.

R. (52/74).—You appear to have received all the holiday that you are entitled to under the agreement, and we do not think it possible for you to recover anything in respect of the day or two that you appear to consider to be due to you.

Viride (55/65).—Your first label for the ointment will not involve liability to duty. Although the words "antiseptic, soothing, and healing" are used in the second, they are not in association with any part of the human body, nor do you hold out or recommend the preparation for any human ailment. Ointments with similar titles are commonly sold without infringing anyone's rights.

S. (49/25) wishes to know how to proceed in order to recover a debt from a person who has left London and is now resident in Burma. [Assuming that the debt is one in respect of which service out of the jurisdiction may be allowed, subscriber must, after issuing a writ and swearing an affidavit in support of his claim, obtain leave from the Judge to serve the writ, or notice of it, in Burma. If the debt is a small one, subscriber may proceed in the County Court, where, again, it will be necessary for him to make an application, supported by affidavit, to the Judge for leave to serve the summons abroad. Subscriber should place the matter in the hands of a solicitor.]

Lever (57/65) puts the following questions: (1) A chemist's business was sold for a lump sum, to include stock, fittings, and goodwill. A part of the said stock was the property of the — Co., held under their agency agreement. Buyer says this stock belongs to him, as he bought everything as it stood. Seller says the stock belongs to the — Co.—i.e., the unsold part on the date of the transfer of the business. The buyer was aware of the nature of the agreement with the — Co. Which is right? (2) Buyer also repudiates an advertising contract on the ground that the name is not the one appearing in advertisements, though the address is the same. The advertisement appears in a Guide printed to last three years, but paid for annually. [The answer to the first question must necessarily depend upon an inquiry into the circumstances surrounding the sale of the business, but if the stock upon the premises was sold without reservation, any of that stock which was held by the seller "on sale or return" now belongs to the buyer. The seller, having sold the — goods, must pay the — Co. for them, the fact that the sale was to the buyer instead of to customers being, in our opinion, immaterial. The advertising contract was personal to the seller, and the buyer is not liable under it, unless he expressly agreed to take it over.]

Miscellaneous Inquiries.

We do not as a rule repeat information which has been given in this section during the past twelve months, as it occupies space which can be more profitably utilised for other information. In such cases the numbers are mentioned, and if querists cannot refer to these they may obtain the numbers from the "C. & D." Office at the published prices, usually 6d.

We do not undertake to analyse and report upon proprietary articles, and when samples are sent particulars should be supplied to us as to their origin, what they are, what they are used for and how.

Resort (40/44).—BOOKS ON MAKING TOILET-SOAP.—The manufacture of toilet-soaps is naturally dealt with in connection with soaps generally. Watt's "Art of Soap-making: Practical Handbook of Manufacture of Hard and Soft Soap and Toilet-soaps" (Lockwood, 7s. 6d.). Hurst's "Soaps: A Practical Manual of the Manufacture of Domestic, Toilet, and other Soaps," and E. Varenne's "Traité Pratique de Savonnerie" (Beranger, Paris) all contain special sections on toilet-soaps.

W. M. T. (42/48).—The possible use of SLIPPERY-ELM BARK as an abortifacient is new to us. It is generally considered that the drug may be administered *ad lib.* without any bad

effects. Perhaps some of our readers will tell us if they have also been asked for the drug under suspicious circumstances.

Gynos (57/7).—We cannot advise in a case such as you describe. Medical examination is necessary before treatment (if any) is undertaken.

G. E. M. (48/1).—FACE-POWDER.—The powder you send consists of French chalk (6), zinc oxide (3), and magnesia (1). Try a mixture of the parts of these ingredients indicated by the figures in parentheses.

J. S. (45/10).—LAUNDRY STIFFENING-GLAZE.—Your sample consists of powdered borax and French chalk; 6 parts of the former and 1 of the latter should give you a very similar preparation. With reference to the stove-polish, we think the iron oxide ought to be omitted. You will find such particulars in "Pharmaceutical Formulas," p. 373, as will enable you to make up a satisfactory stove-polish.

Jock (57/32).—In the best pharmacies apprentices are not instructed in dispensing until the last year.

Erin (58/33).—We should have to know your examiner's opinion of your replies before we could comment upon your examination.

Apothecary (58/49).—Thomson's "Apothecaries' Hall Manual" (Whitaker, 2s.) is the book that you require.

W. W. (91/19).—(1) LINSEED OIL.—The most recent book on this is Ennis's "Linseed Oil and Other Seed Oils" (Constable, 16s.). (2) A new edition of Brant's "Soapmakers' Handbook" was published this year by Spott.

Prism (57/6).—LENS DISTORTION.—The barrel-shaped (negative) and pincushion (positive) distortion which you observe when a prism is placed before a spherical lens is due either to faulty grinding of the prism or to uncorrected distortion of the spherical lens. The prism fault can be corrected only by proper grinding, but if the distortion is due to the lens it can be practically neutralised by shifting the position of the lens stops.

J. E. S. (36/31).—(1) CARBOLIC TOOTH-POWDER.—The following recipe fulfils your requirements of a cheap but good powder:

Kaolin	...	...	...	3xij.
Kieselguhr	...	...	...	3iv.
Carbolic acid	...	...	...	3ss.
Powdered quillaia extract	...	...	...	3ij.
Eosin	...	...	...	gr. iij.
Rose-geranium oil	...	...	...	mxx.

Dissolve the eosin in water 3ij., and well triturate with 2 oz. of kaolin. Mix the carbolic acid and rose-geranium oil with an ounce of kieselguhr, add to the coloured kaolin, also add the rest of the powders, triturate and sift.

(2) FACTITIOUS VENICE TURPENTINE:

Powdered black resin	...	...	17 oz.
Turpentine oil	...	...	8 oz.
Boiled linseed oil	...	...	12 oz.

Melt the resin and linseed oil together, remove from the fire, and stir in the turpentine.

Tanner (35/63).—BELT-GLUE.—The following formula, which embodies the use of tannin, should yield a more durable cement for belting than the one your customer has been using:

Best Irish or French glue	...	...	1 lb.
Cold water	...	...	16 oz.

Soak twenty-four hours and dissolve on a water-bath. Separately boil for two or three hours

Russian isinglass	...	...	4 oz.
Water	...	...	6 oz.

so as to produce after evaporation 7 oz. of liquid, to which, when somewhat cool, add

Spirit	...	...	$\frac{1}{2}$ oz.
Acetic acid	...	...	$\frac{1}{2}$ oz.

Make also a solution of

Tannin acid	...	...	1 oz.
Glycerin	...	...	4 oz.

Finally mix the glue and isinglass solutions at about 150° F. and stir in the tannin solution.

Oxford (168/20).—ASSISTANTS' PROSPECTS IN AUSTRALIA.—Before emigrating to Australia or New Zealand an assistant should have passed the Minor examination, which is accepted for registration in all the States of the Commonwealth and in the Dominion of New Zealand. The prospects of an assistant do not differ very much from what

they are at home, but this statement may be modified according to the "eye" with which the question of emigration is regarded. New conditions in many cases act as a stimulus to those assistants who at home may have given way to pessimism. In regard to this question, you should read an article which appeared in the *C. & D.*, April 24, 1909, p. 628, which stated the Australian point of view. Wages Boards, about which you ask, also have been dealt with in recent issues of the *C. & D.*, as follows: Queensland, July 27, 1912, p. 107; June 15, 1912, index folio 862; New South Wales, October 21, 1911, index folio 600.

W. W. (51/54).—CLEANING BRASS SHOP-FRONTS.—The use of the following metal-paste can be recommended for this purpose:

Japan wax	...	...	100 parts
Crude oleic acid	...	...	550 parts
Melt together and add			
Precipitated silica	...	...	325 parts
Ferric oxide	...	...	25 parts
Mirbane oil	...	...	3 parts

previously well mixed and sifted.

The hardness of the paste can be increased by adding more wax, if climatic conditions in Johannesburg require it.

H. C. (45/4).—DEODORISED IODOFORM.—In the absence of an official formula we cannot say definitely what is intended by iodoformum desodoratum in a Spanish prescription. The "National Formulary" orders iodoform 96, coumarin 4, but Continental practice favours the employment of other aromatics, such as the following:

1. Iodoform,			
Cinnamon-bark, finely powdered	equal parts		
2. Iodoform	...	...	10 grams
Sassafras oil	...	...	2 drops
3. Iodoform	...	...	20 grams
Camphor	...	...	1 gram
Peppermint oil	...	...	2 drops

J. M. M. (55/13).—UNNA'S LINIMENT OF POTASSIUM IODIDE WITH SOAP.—Johnson's modification of this involves the preparation of a superfatted soap, as follows:

Benzoated lard	...	...	1 lb.
Caustic potash	...	...	4 oz. 56 grains

Dissolve the potash in 4 oz. of water and stir the lard and potash solution together in a water-bath for three or four days to ensure perfect combination. The soap must be neutral, the test being to mix a small portion on an ointment tile with a few grains of calomel, when no blackening should result. The liniment is then compounded as follows:

Superfatted soap, as above	...	...	1 oz.
Potassium iodide	...	...	$\frac{1}{2}$ dr.
Distilled water	...	...	6 dr.

Dissolve the salt in the water; warm the soap with about half of the solution in a porcelain dish over a steam- or water-bath, gradually add the rest of the solution, and beat together with a spatula until cold.

Verb. Sap. (55/33).—VEGETABLE IVORY.—The nuts you send are the produce of *Tagua* or *Phytalephas macrocarpa*, a palm which grows in South America. The nuts are imported in large quantities for button-making, and are known sometimes as Corozo nuts, which is the name by which the fruits of the *Attalca* are known in Central America.

Retrospect of Fifty Years Ago.

Reprinted from "The Chemist and Druggist," Sept. 15, 1862.

The Patent-medicine Stamp-duty.

SIR,—As the avowed object of your periodical is the advocacy of the trade interests of chemists and druggists, I think your attention might be profitably directed to the above-named subject.

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I remain, Sir, yours respectfully,

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INDEX and BUYERS' GUIDE
 See pages 5 to 9.

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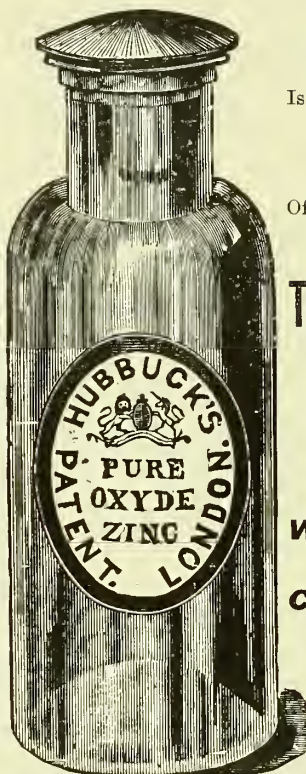
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ON A LARGE SCALE.

We spared no effort to make this wafer

THE BEST OF ITS CLASS

in therapeutic efficacy—in instantaneous effect—in perfection of form, with the result that to-day, although the number of "Wafers" on the market is legion, our make is

UNSURPASSED and UNAPPROACHED.

Suitable alike for the highest class and the humblest trade, these Wafers offer superlative value to the consumer, and are the means of bringing numbers of customers to the Pharmacy, orders being repeated time after time.

In past years we have sold them in millions, and the sale is ever increasing.

Price in bulk: 3/6 per lb.
28 lbs., 3/4 less 5%
1 cwt., 3/2

Card Boxes, 2/10 per doz.
Artistic Tins for the waistcoat } net.
pocket, 2/- per doz.

These Wafers average 120 to the ounce.

The card box contains about 90 Wafers.

The small tin contains about 60 Wafers.

Hand-cut—Potential in effect—of beautiful finish.

RAIMES & CO., Wholesale Druggists, YORK.

Largely increased Production and Sale.

Special Terms to large Shippers.

PRECIPITATED CHALK

CRETA PRÆCIPITATA (Calc. Carb. Præcip. Leviss.)

SPECIAL QUALITY.

FINEST, LIGHTEST,
and
PUREST
IN THE MARKET.Every particle is passed
through a mesh of
40,000
to the square inch.**NICHOLS CHEMICAL CO., Ltd.,** Baxenden, . .
Nr. ACCRINGTON.Certificate of Analysis from **VIRGIL COBLENTZ, A.M., Ph.G., Ph.D., F.C.S.,***Professor of Theory and Practice of Pharmacy, Director of the Pharmaceutical Laboratory, New York College of Pharmacy.*The sample of Precipitated Chalk, **G. W. N. Brand**, which was submitted for my examination, I found to fulfil all the requirements of the United States Pharmacopœia as regards tests of purity. The sample is remarkably pure and free from the usual impurities found in Precipitated Chalk.
Signed. V. COBLENTZ, Ph.D.London Agents: **H. E. STEVENSON & CO.,** 122 Great Suffolk Street, S.E.
Paris Agent. New York Agents.**L. WEILER, 2 Rue Théophile Roussel, 12c.****P. E. ANDERSON & CO., 99 John Street, New York.****SAL AMMONIAC and SATIN WHITE Apply direct. [1]**

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Petroleum Jellies

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White, Cream, Yellow, Orange,
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White Oils

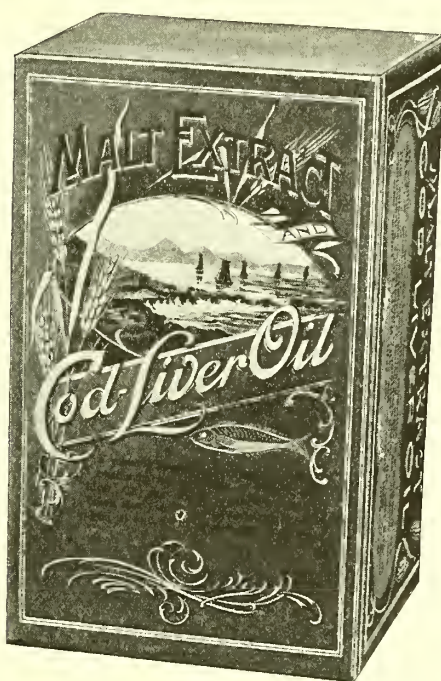
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White and half-white Oils,
odourless, tasteless, bloomless.

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Light and Dark Yellow,
Light and Dark Green, Red, &c., &c.*The Stern Sonneborn Oil Co., Ltd.*Tel. Add.: "Centumvir" London.
Glasgow.**WHOLESALE
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The best package of **Extract of Malt** plain or with **Cod Liver Oil**



Specially flavoured to disguise taste of oil
In three sizes — $\frac{1}{2}$ lb., 1 lb., and 2 lb.
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APOLLO.

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The same guarantee of absolute Purity, which for the past sixty years has been given with their Block Juices, equally applies to their new stick "**APOLLO.**"

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WE WARN BUYERS that fraudulent and ineffective articles purporting to be Ichthyol, or "equal to Ichthyol," are offered by unscrupulous dealers.

GENUINE ICHTHYOL, as it has been studied and is wanted by the Medical Profession and supplied all the time to the Trade, is delivered by us in tins and bottles under our special label with our name, and can be obtained in original packing from any wholesale druggist in the U. K. The use of our Registered Trade Marks "ICHTHYOL" and "ICHTHYOLATE" for any other product means deception and dishonesty, and will entail their penalties.

PHYSICIANS, CHEMISTS, and DRUGGISTS are requested to report to us all cases where imitation products are suspected.

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Write for prices and samples to—

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Bromides, Iodides, Bismuth Subnitrate, Gallic Acid, Phenacetin, Salol,

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A Druggist is known by the drugs

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Merck's are the Standard and cost no more.

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**Yohimbine, Caffeine, Chloralhydrate, Morphia, Codeine, Dionin, Styptoln,
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Finest NON-FREEZING LOFOTEN COD LIVER OIL.

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SPEARMINT → **WRIGLEY'S**
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The Only Largely Advertised Chewing Gum in England is

RETAILS
2½d.
PER PACKET



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Chemists all over England are stocking and selling **WRIGLEY'S SPEARMINT** → in great quantities. Are you?

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**Costs
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Box.**

WRIGLEY'S **SPEARMINT** →
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**Sells
Quickly
at
4/2^d.**



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Original Packages can generally be supplied at the Current Prices quoted in the Trade Report of this Paper on Terms as below.

- A**cet. Scilla, P.B., 7 lbs. @ 3d. lb.
Acid. Acetylo-Salicyl., 56 lbs. @ 2/4 lb.; 7 lbs. @ 2/7 lb.; 1 lb. @ 2/9 lb.
Citric xts., B.P., '85, 1 cwt @ 1/5 lb.; 7 lb. in Bags @ 1/6 lb.; powder 1/4 d. lb. extra
Diethylbarbituric, 16 oz. @ 23/6 lb.; 1 oz. @ 1/10 oz.
Tart. cryst. or pulv., B.P., 1885, 1 cwt. @ 1/1 lb.; 7 lbs. @ 1/2 lb.; parv. 1/4 d. lb. extra.
Adeps Benz., B.P., 28 lbs. @ 3 1/4 d. lb.; 7 lbs. @ 9 1/4 d. lb.
Ammon. Brom., P.B., 1 cwt. @ 2/1 lb.; 7 lbs. @ 2 1/2 d. lb.
Bismuth, P.B., Carb., 7 lbs. @ 8/10 lb.; 3 lbs. @ 9/1 lb.; 1 lb. @ 9/3 lb.; subnit. 1/- lb. less.
Camphor, English Flowers, "not artificial," 5 lbs. @ 2/- lb.; 1/2 oz. or 1/4 oz. 7 lbs. @ 2/- lb.
Cetaceum, No. 1, fine white English, 64 lbs. @ 1 1/4 lb.; 7 lbs. @ 1/3 lb.; powder, 7 lbs. @ 1/9 lb.
Cocaine Hydrochlor., B.P., 25 ozs. @ 6/2 oz.; 4 ozs. @ 6/7 oz.; 1 oz. @ 7/6 oz.
Cream Tartar, 98% powder, 1 cwt. @ 90/- cwt.; 7 lbs. @ 11d. lb.
Disinfectant Fluid, soluble, 45 galls @ 1/- gall; 5 galls @ 1/4 gall. 1 gall. @ 1/8 gall.
Ess. Limonis (oil) original coppers, 12 lbs. @ 6/6 lb.; 6 lb. @ 7/- lb.; not guaranteed absolutely pure.
Ol. Cocoa Nuts, finest White, 80 lbs. @ 55/- cwt.; 40 lbs. @ 57/6 cwt.
Ol. Eucalypt., B.P., 1 cwt. @ 1/5 1/2 lb.; 28 lbs. @ 1/6 1/2 lb.; 9 lbs. @ 1/7 1/2 lb.
Ol. Geranii Gall. Opt., 1 lb. @ 27/- lb.; 8 1-oz. bots. @ 2/1 oz.; 1 oz. @ 2/3 oz.; Turc., 1 lb. @ 12/6 lb.; 4 ozs. @ 15/- lb.
Ol. Juniperi Bacc., B.P., 4 1/2 lb. @ 3/6 lb.; 1 lb. @ 3/10 lb.; Ligne Exot., 1 cwt. @ 1/2 lb. 28 lbs. @ 1/4 lb.; 9 lbs. @ 1/5 lb.
Ol. Lavand. ab Flor., 5 lbs. @ 12/- lb.; 1 lb. @ 12/6 lb.
Ol. Menth. Pip. English, 5 lbs. @ 33/6 lb.; 1 lb. @ 35/- lb.; Hotchkiss original bots., 21 oz. each @ 16/6 lb.; 6 bots. @ 16/1 lb.; 18 bots. @ 15/5 1/2 lb.; American, 20 lbs. @ 12/- lb.; 4 1/2 lbs. @ 12/11 lb. 1 lb. @ 13/5 lb.
Ol. Morrhuæ, Nov. 1912, finest non-freezing, 25 gall. tin-lined barrels @ 72/- per barrel; 2-gall. tins @ 4/- per gall.
Ol. Myristicæ, 7 lbs. @ 2/10 lb.; 1 lb. @ 3/2 lb.
Ol. Nucis Pallid. 45 galls. @ 3/8 gall.; 2 gall. tins @ 4/6 per gall.
Ol. Olivæ P.B., good yellow, guaranteed pure, 45 gall. Barrels @ 4/8 gall.; 2-gall. tins @ 5/3 gall.; fine cream, 9-lb. tins @ 7/2 each.
Ol. Santal Flav. Ang. B.P., 5 lbs. @ 11/2; 1 lb. @ 11/6 lb.
Pix. Burgund. Druggists', 1 1/2 cwt. @ 25/6 cwt.; 7 lbs. @ 4 1/4 lb.
Potass. Iod. P.B., 1 cwt. @ 10/- lb.; 14 lbs. @ 10/- lb.; 3 lbs. @ 10/2 lb.
Rad. Jalap, English Ground, 28 lbs. @ 1/10 lb.; 7 lbs. @ 1/11 lb.
Tinct. Gelsem. B.P., 5 lbs. @ 2/10 lb.; bond, 6 1/4 d.
Tinct. Gentianæ Comp., B.P., 5 lbs. @ 1/11 1/2 lb.; bond, 6 1/4 d. lb.
Tinct. Hyoscyamili B.P., 5 lbs. @ 2/5 lb.; bond, 7 1/4 d. lb.
Tinct. Iodi. B.P., 5 lbs. @ 4/2 lb.; bond, 1/6 lb.; deccolor 5 lbs. @ 4/6 lb.; bond, 1/3 1/2 lb.
Tinct. Lavandulæ Comp., B.P., 5 lbs. @ 3/10 lb.; bond, 7 1/4 d. lb.
Tinct. Myrrhæ, B.P., 5 lbs. @ 3/9 lb.; bond, 9 1/4 lb.
Tinct. Nucis Vom., B.P., 5 lbs. @ 2/10 lb.; bond, 6d. lb.
Tinct. Opil. B.P., 5 lbs. @ 3/8 lb.
Tinct. Opil. Aquos., 5 lbs. @ 2/6 lb.
Tinct. Quinæ Amm., B.P., 5 lbs. @ 2/6 lb.; bond, 11d. lb.
Tinct. Rhei Co., B.P., 5 lbs. @ 2/2 lb.; bond, 9d. lb.
Tinct. Scillæ, B.P., 5 lbs. @ 2/6 lb.; bond, 7 1/4 d.
Tinct. Senegæ, P.B., 5 lbs. @ 3/1 lb.; bond, 1/3 1/2 lb.
Tinct. Strophanth., P.B., 5 lbs. @ 3/5 lb.; bond, 8 1/4 d. lb.
Tinct. Valerianæ, 5 lbs. @ 2/8 lb. bond, 6d. lb.
Tinct. Valerianæ Ammon., P.B., 5 lbs. @ 3/1 lb.; bond, 8 1/4 d. lb.
Tinct. Zingib. P.B., 5 lbs. @ 4/- lb.; bond, 6 1/4 d. lb.
Tinct. Zingib. Fortior 5 lbs. @ 4 1/3 lb.; bond, 10 1/4 d. lb.
Treacle (Black), Casks about 5 1/2 gross @ 42/- per Cask; 24 lbs. @ 2d. lb.

BISMUTH. CAMPHOR. COD LIVER OIL.

- H**oney, Pale Set, Jamaica, 3 1/2 cwt. @ 36/- cwt.; 28 lbs. @ 50/- cwt.; Californian 1/2 cwt. @ 52/6 cwt.; 7 lbs. @ 7 1/4 d. lb.
Ichthyl Ammon., 3 lbs. @ 10/9 lb.; 1 lb. @ 11/- lb.; chemical equivalent; Ammon. Ichthosulphonas B.P. Codex, 7 lbs. @ 5/- lb.; 1 lb. @ 5/6 lb.
Insect Powder, Opt. English grd., closed flowers, 28 lbs. @ 1/10 lb.; 7 lbs. @ 1/11 lb.; English Ground, 1/2 closed flowers, 4d. lb. less; Foreign Ground, 1 cwt. @ 80/- cwt.; 28 lbs. @ 9d. lb.
Iodoform Pulv. B.P., 7 lbs. @ 14/2 lb.; 3-lbs. @ 14/6 lb.; 1 lb. @ 14/9 lb. [12/9 lb.]
Iodum, resub. B.P., 7 lbs. @ 12/3 lb.; 1 lb. @
Lin. Aconiti Meth., 5 lbs. @ 1/2 lb.; 1 lb. @ 1/5 lb. [1/8 lb.]
Lin. Bellad. Meth., 5 lbs. @ 1/5 lb.; 1 lb. @
Lin. Camph. P.B., 40 lbs. @ 10d. lb.; 9 lbs. @ 11d. lb.
Lin. Sapo Meth., 9 lbs. @ 7d. lb.
Lin. Tereb. Acet., B.P., 5 lbs. @ 1/- lb.
Linsed c. Oil, Crushed, 3 cwt. @ 23/- cwt.; 1 cwt. @ 24/- cwt.
orphinæ Acet. Hydrochlor. or Sulph., Pulv. B.P., 25 oz. @ 10/6 oz.; 16 oz. @ 10/9 oz.; 8 oz. @ 10/11 oz.; 1 oz. @ 11/6 oz.; Pur. Precip. Bimeconate or Tart. 1 oz. @ 14/- oz.
Myrrh, Gum, English Ground, 28 lbs. @ 11d. lb.; 7 lbs. @ 1/1 lb.
Saccharine, .550 or .500, 7 lbs. @ 26/- lb.; 1 lb. @ 27/6 lb.; .330 7 lbs. @ 24/- lb.; 1 lb. @ 25/6 lb.
Soda Salicyl. Pulv., 7 lbs. @ 1/6 lb.; phys. pur.; 28 lbs. @ 2/3 lb.; 1 lb. @ 2/6 lb.
Sodii Bromid., P.B., 1 cwt. @ 1/11 1/2 lb.; 7 lbs. @ 2/1 1/2 lb.
Strontine Bromid., 1 cwt. @ 1/8 1/2 lb.; 7 lbs. @ 1/11 lb.; 1 lb. @ 2/2 lb.
Sulphonat. P.B., 1 lb. @ 10/4 lb.
Tinct. Aurantii. Recens, B.P., 5 lbs. @ 3/6 lb.; bond, 8 1/4 d.
Tinct. Belladon., B.P., 5 lbs. @ 2/11 lb.; bond, 6 1/4 d.
Tinct. Benzoini Comp., P.B., 5 lbs. @ 3/5 lb.; bond, 8 1/4 d.
Tinct. Camph. Comp. P.B., 5 lbs. @ 2/5 lb.; bond, 6 1/4 d.
Tinct. Cantharidis, P.B., 5 lbs. @ 3/9 lb.; bond, 6d. lb.
Tinct. Capsici, B.P., 5 lbs. @ 3/3 lb.; bond, 6d. lb.
Tinct. Card. Comp., P.B., 5 lbs. @ 2/6 lb. bond, 6 1/4 d. lb.
Tinct. Catechu, P. B., 5 lbs. @ 2/8 lb.; bond, 7 1/4 d. lb.
Tinct. Chlorof. c. Morph., B.P., 1885, 5 lbs. @ 2/- lb.; bond, 1/6 1/2 lb.
Tinct. Cinchon. Comp., B.P., 5 lbs. @ 3/5 lb. bond, 1/0 1/2 lb.
Tinct. Cinchon. Rub., P.B., 5 lbs. @ 3/- lb.; bond, 10d. lb.
Tinct. Digitalis, B.P., 5 lbs. @ 2/8 lb.; bond, 6 1/4 d. lb.
Turpentine (Best American), 1 gal. tins @ 3/6 each.
Ung. Acid. Boric, P.B., 28 lbs. @ 6d. lb.; Flav. 28 lbs. @ 4 1/4 d. lb.
Acid Carbol. B.P., 28 lbs. @ 8d. lb.; 7 lbs. @ 9d. lb.; 1 lb. @ 11d. lb.
Gallæ, P.B., 7 lbs. @ 1/- lb.; 1 lb. @ 1/2 lb.; c. Opio, 7 lbs. @ 2/10 lb.
Hydrargyri, B.P., 28 lbs. @ 1/10 lb.; 7 lbs. @ 2/- lb.
Hydrarg. Ammon. B.P., 28 lbs. @ 11d. lb.; 7 lbs. @ 1/2 lb.
Hyd. Nit. Dil. 7 lbs. @ 10d. lb.
Paraff. Alb., P.B., 28 lbs. @ 7d. lb.; 7 lbs. @ 8d. lb.; 1 lb. @ 10d. lb. Flav. 28 lbs. @ 5d. lb.; 7 lbs. @ 6 1/4 d. lb.
Resinæ, P.B., 28 lbs. @ 10d. lb.; 7 lbs. @ 11d. lb.
Sulphuris, B.P., 28 lbs. @ 7 1/4 d. lb.; 7 lbs. @ 8 1/4 d. lb.
Zinci Oxid. Benz. B.P., 28 lbs. @ 8d. lb.
Zinci Oleat Powder B.P.C., 7 lbs. @ 2/- lb.
Zinci Oxid., Whitest and Lightest, B.P., 1 cwt. @ 38/- cwt. 28 lb. @ 5d. lb.; 7 lbs. @ 6d. lb.
Zinci Sulph., pure, 1 cwt. @ 16/- cwt.; 28 lbs. @ 2 1/4 d. lb.
Sulphocarbolas, B.P., 7 lbs. @ 11d. lb.; 1 lb. @ 1/1 lb.

*Minimum quantity at these prices: Home Trade, 3 Winchester Quarts assorted; Export, 12 Winchester Quarts assorted.

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Original box of 1 oz. at 1/1½, 3 oz. at 2/9, & 6 oz. at 4/6.

Also in tablets prepared with Chocolate at 1/1½ per tube of 25; and Biscuits containing a larger percentage of Regulín than the Tablets at 1/6 per box of 20.

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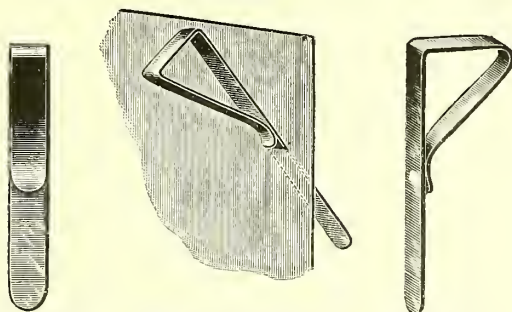
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The "H. F. T." Clip, above illustrated, is a handy little invention, which puts an end to the untidy appearance of Cards so much used for displaying Combs, Tooth Brushes, Scissors, Nail Files, &c., on the Chemist's counter.

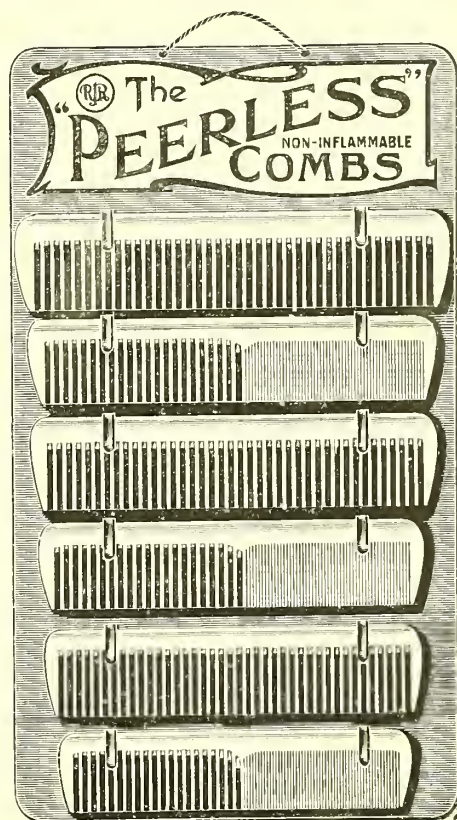
It is a neat nickel-plated steel clip easily inserted that does its work unfailingly.

All my Comb Cards are now fitted with it. Extra clips for Chemist's own use 1/9 per gross, 1 gross in a box.

"PEERLESS" COMBS.

These "Peerless" Combs are rightly named. They are without exception the best finished white comb ever introduced. I have a complete range, dressing and rakes, in all the usual lengths and widths. The 7½ in. dressing for instance costs 8/- per doz., and so on up to 20/- per doz.

All the combs are fitted on Cards with the new "H. F. T." clip. Full particulars on request.



HARVEY'S GREAT REMEDIES FOR THE HORSE WITH THE ADDED REMEDIES (Protected Prices)

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For Chronic Cough, Broken Wind, Roaring, &c.

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HARVEY'S HAIR RESTORING OINTMENT.

HARVEY'S EDOS, or Tasteless Purging Powder.

THE ADDED REMEDIES:

HARVEY'S KOPPOS POWDER,

For Lymphangitis or Weed, and Inflammations generally. In Tins, 5/- and 10/- each.

HARVEY'S THRUSH SPECIFIC.

In Tins, 1/9 and 3/- each.

HARVEY'S HOOF OINTMENT.

In Tins 3/- and 6/- each.

Also

HARVEY'S HAIR RESTORER (Human),

A successful modification of the Veterinary Preparation. In Pots, 2/- each.

The REMEDIES may be obtained of all the leading Druggists' Sundries Houses.

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Entailing little expenditure & ensuring excellent profits.

ABSORBINE MIGHT WELL BE TERMED THE "STANDARD" HORSE LINIMENT FOR REMOVING WIND PUFF, FATTY TUMORS, CAPPED HOCK, Etc.

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Prevents and cures all Parasitic Diseases, Fevers, Scours, Debility, &c.
Once used, always used.

In cans (30 to 40 doses) 5/-
1 gal. (90 to 120 doses) 13/6
1 1/2 gal. (180 to 240 doses for Lambs) .. 25/-

WALTON'S ROUP PILLS cure Roup, Gapes, Colds, Asthma, and other disorders of the Throat, Lungs and Air Passages in Poultry, Game and Pigeons.

In boxes, 6d., 1/-, 2/6, and 5/-.

WALTON'S TONIC PASTE.—Unequalled for preventing disease in all classes of Poultry, Game and Pigeons. Immediate cure for Indigestion, Loss of Appetite, Diarrhoea, Crop (relaxed or bound), &c. &c.

No similar preparation has such beneficial results, on Exhibition Birds and for bad Fledglings.

In tins, 6d., 1/-, 2/6, 5/- and 10/-.

Prepared formerly by
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"COAGULINE" Transparent Cement for broken articles, 6d. bots.
"KLINX" Hydraulic Cement (heatproof), 6d. tins.
"CUE CEMENT," 6d. and 1/-.

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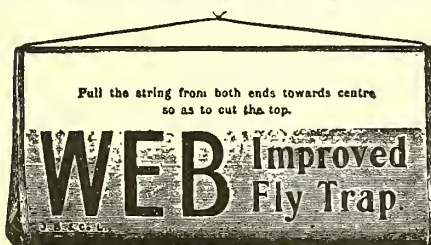
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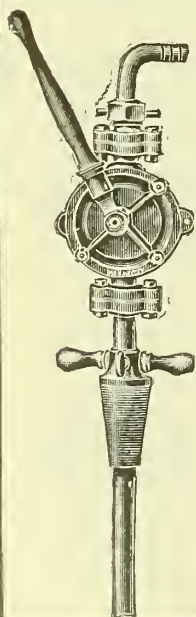
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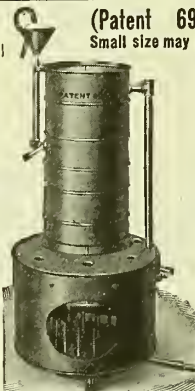
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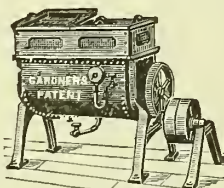
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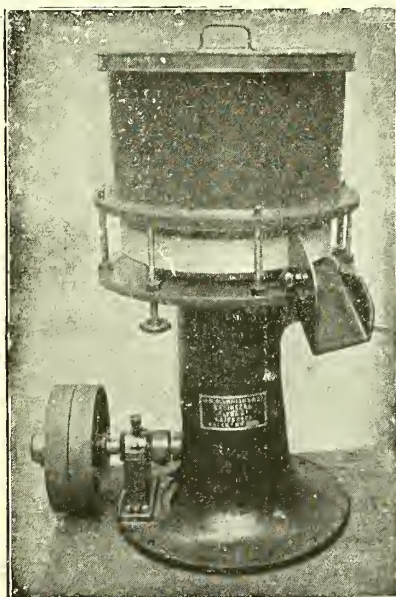
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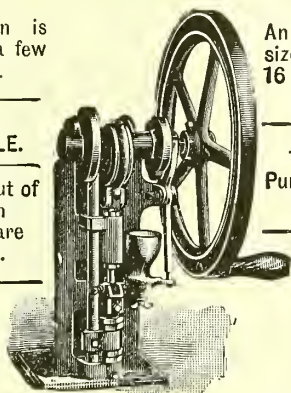
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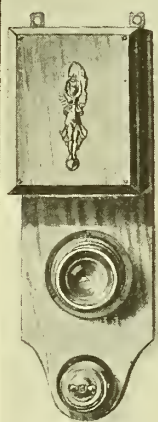
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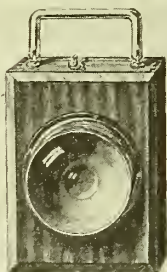
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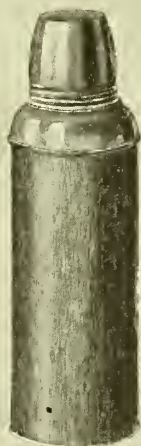
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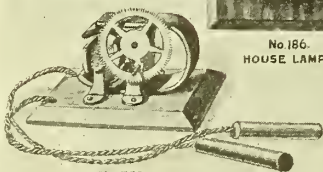
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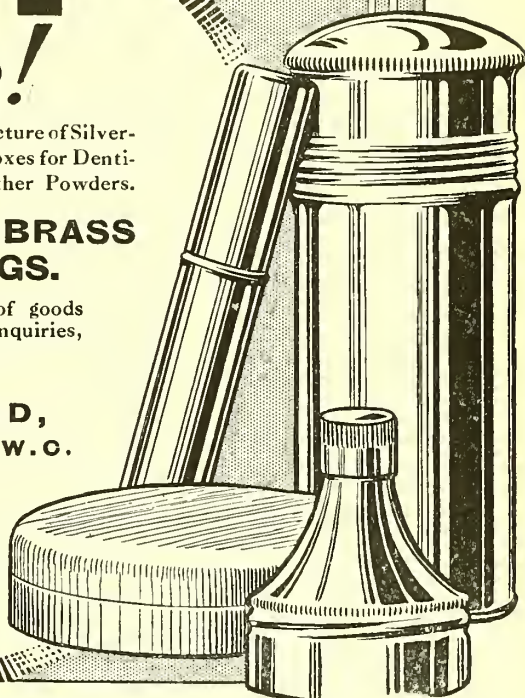
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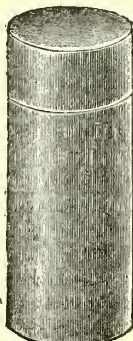
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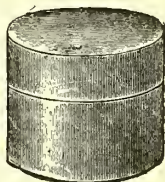


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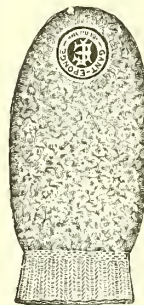
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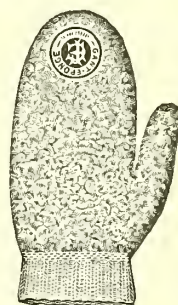
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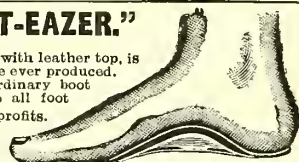
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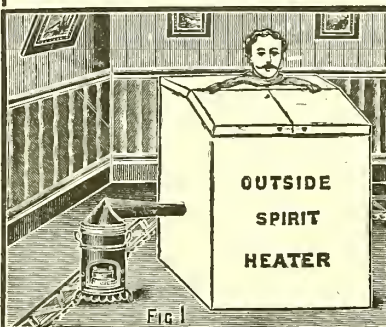
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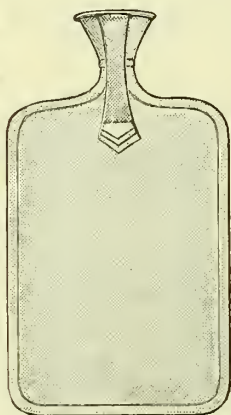
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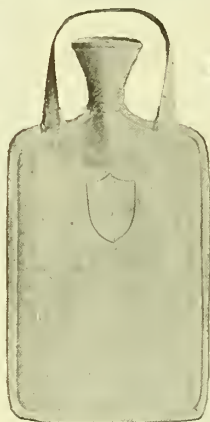
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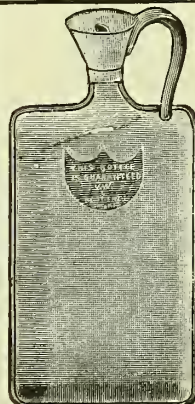
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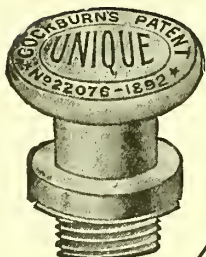
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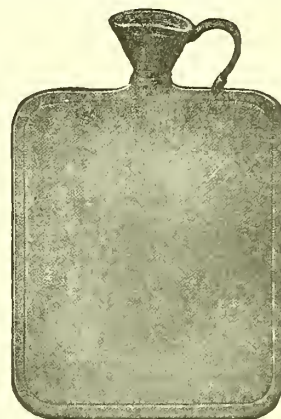
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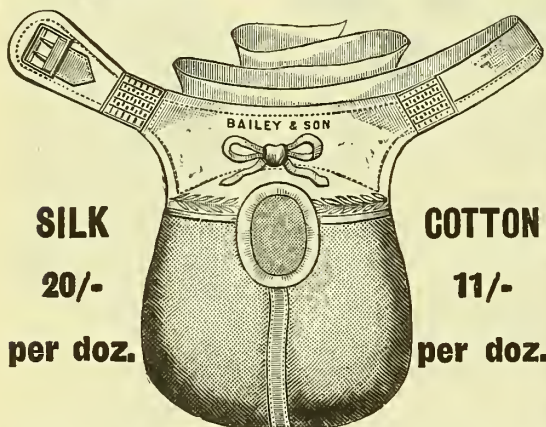
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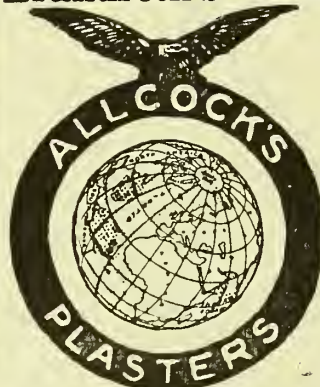
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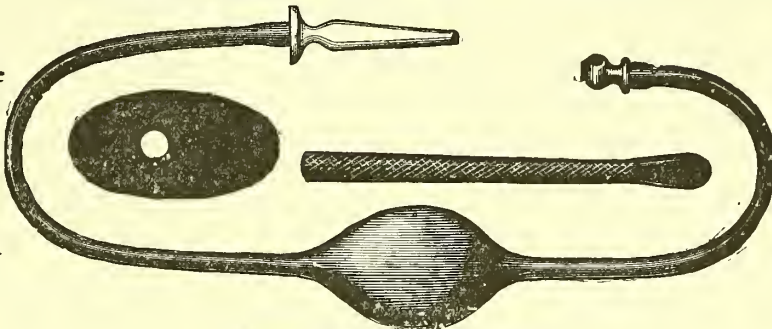
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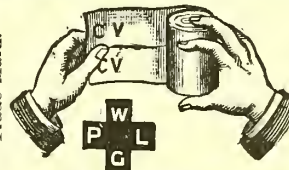
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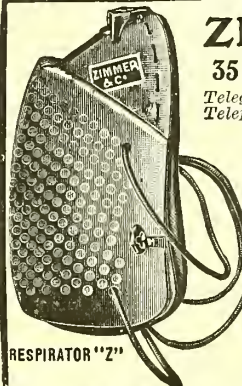
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LEEDS.
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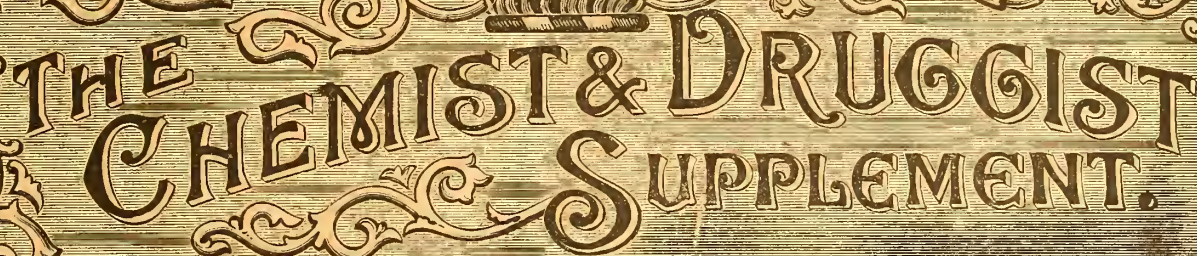
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OFFICE: 42 CANNON STREET, E.C.

SATURDAY, SEPTEMBER 28, 1912

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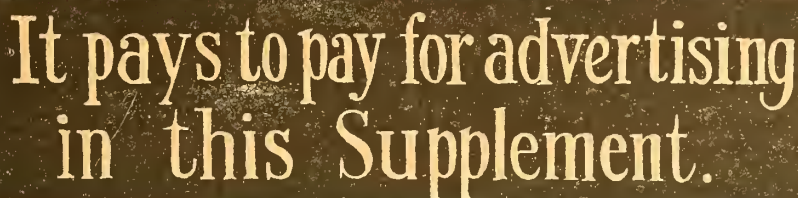
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The Publisher desires to make it clear that advertisements of Businesses for Disposal and Wanted, Situations Open and Wanted, Exchange Column, &c., **MUST BE PREPAID** (except in the case of serial advertisers) and to ensure prompt insertion **REMITTANCES MUST ACCOMPANY INSTRUCTIONS.**

Advertisements for the current issue cannot be received after 4 p.m. on Thursday in each week. If it is necessary to telephone or telegraph an urgent announcement this may be done

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in this Supplement.

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3.—LONDON, S.E. (Suburban).—Dispensing and Retail Business; all good-class trading; position unique; returns, present rate, £1,500, increasing; *net profit* about £450; large shop; corner position; long lease; price £1,250.

4.—MIDDLESEX (few miles out).—Good-class Dispensing and Family trade; returns £750, which produce a *net profit* of £360; attractive, well-fitted shop, fully stocked; comfortable residence, with garden attached; rent £45; price £600.

5.—LONDON, S.W.—Retail and Dispensing Business; returns between £1,000 and £1,100 per annum; *net profit* £320; capital opening for Store trading; handsomely fitted shop, fully stocked; price about £850.

6.—LONDON, E.C. (main thoroughfare).—Old-established Business; returns last year about £1,070; *gross profit* 50 per cent.; good opening for extended trade; price to be arranged equitably.

7.—SOUTH OF LONDON (Suburban).—Good-class Dispensing and Retail Business; returns last year £2,300, increasing; intending investors with £1,200 at command will find this a sound investment.

8.—INLAND HEALTH RESORT.—Two high-class modern Pharmacies, Dispensing and Photographic, situate in premier positions; returns about £5,000 per annum; can be sold separately; present hands 17 years; terms, valuation of stock and fixtures; goodwill to be agreed.

9.—WEST OF ENGLAND.—Light Retail, Dispensing, and Prescribing Business; returns for the past 3 years average £1,200 and the *profit* £350; large residence, including bath-room; excellent position; price £900.

10.—SURREY (Death Vacancy).—Middle-class Retail Business, including Optical; returns average about £1,200 per annum; *profits above the average of Retail trade*; excellent position; early sale desired; price to be arranged equitably.

11.—SOUTH DEVON.—Vendor retiring; old-established Dispensing Business; present hands 45 years; returns about £950 per annum; scope for development; price about £800; trial allowed.

12.—SOUTH COAST (Health Resort).—Dispensing and Retail Business; new Prescriptions last year 2,200, including repeats 5,520; returns £1,467, increasing; attractive Pharmacy; held on lease; price £900.

13.—LANCS.—Unopposed Business; no heavy trade; returns average for the past three years £554, and the *net profit* £198; roomy house; rent £28 per annum; price £275.

14.—CHESTER (within easy distance of).—Light Retail and Dispensing Business, including a little Optical; returns increase yearly, last year's turnover being £660; *net profit* £220; rent £50, sub-let £25; price £550.

Particulars of any of the above will be furnished on application.

N.B. NO CHARGE TO PURCHASERS.

VALUATIONS FOR STOCKTAKING.

Messrs. O. & Co. desire to emphasize the necessity of a Periodical Statement of Account, by which means alone **Profit, the value of Business, &c.**, can be determined. Involving as this does the labour of Stocktaking and Valuation, it is often omitted, and eventually becomes the cause of **confusion and loss.**

Messrs. O. & Co. are prepared to undertake these essential duties, and will make **Special Terms** for such services.

ORRIDGE & CO., 56 LUDGATE HILL, LONDON, E.C.

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Licensed Valuers,

73 LAUREL ROAD, LEICESTER.

Telegrams, "Brett Leicester." Telephone 1934.

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GIVES PERSONAL ATTENTION TO ALL VALUATIONS.

AGENCY.—We have always a large number of *Buyers* on our books, and we can frequently find a purchaser at once. We also have a *Private Register* for vendors who are in no hurry to sell, and who do not wish their businesses to be advertised.

STOCKTAKING SPECIALISTS to the Entire DRUG TRADE

1.—SOUTH-WEST OF ENGLAND.—Very fine Dispensing Business for Disposal; returning £1,535; net profit £500; splendid Pharmacy, with good house attached.

2.—SOUTH DEVON (Coast).—Light Retail and Dispensing; returns £1,200; net profit £350; splendid position in main thoroughfare; £980 is the price asked.

3.—BLACKPOOL (near).—For Disposal shortly, a very select Dispensing Business; returns £1,500; net profit £500; price £1,000 to £1,200; will be for disposal during next month; solely in our hands for transfer, and early application advisable; references required.

4.—LINCS.—Returns £750; rent £25; a bargain £200.

5.—YORKS.—Three Businesses for Disposal: (1) Returns £1,500; (2) Branch one mile away, £275; (3) another Branch under unqualified, returns £330; net profit of the three £650; plenty of scope; will be sold separately or together; every investigation offered; prices very moderate; correspondence invited.

6.—LONDON, W. (Death Vacancy).—Good-class Retail; net profit £300; price £500, or near offer.

7.—MANCHESTER.—Returns £1,165; net profit £300; price £850.

8.—DURHAM COUNTY.—Capital unopposed Country Retail; returns £550; net profit £220; price £250.

9.—HERTS.—Returns £900; net profit £245; price £700.

10.—LIVERPOOL.—Returns £700; net profit about £250; price £400.

NOTE.

We have no vacant dates whatever till November 1 for Stocktakings. Write for vacancies in November and onwards. Moderate charges.

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Unopposed, Co. Durham ...	700	23	£250
Good Retail, County Town ...	1,400	80	Valuation
South Coast ...	800	50	Valuation
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We desire particularly to draw the attention of Colonial and Foreign Subscribers to the fact that in cases where they require partners, agents or assistants, or wish to sell their businesses, an advertisement in this Supplement, placed in every copy of "The Chemist and Druggist," should be the readiest means of helping them to attain their object. The tariff for such announcements is given under the appropriate headings in the Supplement Instructions and remittances can be sent to us direct or through the advertisers' correspondents in this country.

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Have the following Businesses for Disposal. (No charge to purchasers.)

1.—SUSSEX COAST (Rising Resort).—Good-class Retail, Dispensing, and Photographic, in excellent position; returns £1,100; splendid house and attractive shop; price simply valuation, about £700; personally inspected and recommended.

2.—KENT.—Sound Light Retail Business, in best position; returns £1,400; net profits £314; books kept by accountant; good premises; own property; price valuation, about £750.

3.—DEVON.—Light Retail and Dispensing Business, in good Market town; returns £700, increasing; net profit £190 to £200; excellent house and shop; very heavy stock; handsome front; price £600; worth attention.

4.—SOUTH COAST.—Light Family Retail and Dispensing; 4,600 Prescriptions last year; returns £870; very few Patents; no side-lines; very good position; good house and shop; price for quick sale £450; personally inspected; strongly recommended.

5.—SURREY (20 miles out).—Light Retail and Dispensing Business, pleasantly situated; unopposed; returns £670; net profit £238; modern house, every convenience; price £500; strongly recommended.

6.—NORTH-EAST COAST.—Neglected Cash Retail and Prescribing Business; returns £820; was doing £1,150, and can again; fine shop in splendid position; price, valuation, about £500.

7.—MIDLANDS.—Sound Mixed Retail, in small industrial town; population 12,000; one other Chemist; returns £550; plenty of scope; low rent; modern premises; price £300, or offer.

8.—LINCS.—Unopposed General, Country Retail; under manager; returns £450; scope for much increase; low rent; shop recently refitted and re-stocked; price £275, or valuation.

9.—KENSINGTON.—Light Retail, Dispensing, and Prescribing; returns £1,100; net profit £300; plenty of scope; fine corner position; well fitted and stocked; same hands many years; price £800.

10.—LONDON, W. (15 miles out).—Good-class Business, practically unopposed; death sole cause of selling; net profit about £300; attractive shop; good stock; price £600.

11.—YORKS (Inland Health Resort).—First-class Retail and Dispensing; returns £1,500; good profits; splendid position; elegantly fitted and fully stocked; price £1,150; worth attention.

12.—EASTERN COUNTY.—Sound unopposed Village Business; no Oils or Paints; returns £750; net profit £300; low rent; nice house and large garden; price £525.

13.—GLAMORGANSHIRE.—Unopposed Light Retail, in rapidly growing district; returns £828; plenty of scope; net profit about £250; own property; selling through failing health; price £350; stock and fixtures worth £450.

14.—DERBYSHIRE (Market Town).—Sound Light Retail Business in growing town; returns about £500; plenty of scope; very low rent; modern Pharmacy; good position; price £250, or valuation.

15.—HAMPSHIRE.—Owner, going abroad, will sacrifice snug little Business in good market town; returns £8 weekly; can be much increased; low rent; price £135; £50 can remain.

16.—CHESHIRE.—Unopposed good-class Business in rapidly growing district; returns £565; net profit £200; good house and garden; price £335; strongly recommended.

17.—MANCHESTER.—Neglected Suburban Business; returns £500 under management; plenty of scope; corner position; main road; low rent; 700 to 800 customers weekly; price £200.

18.—WEST OF ENGLAND.—Old-established Retail Business, in small town; returns over £500, and increasing; low rent; good house; large shop; fully stocked; price £400.

19.—LONDON SUBURB.—Light Retail and Dispensing, with Prescribing; no cutting, and yielding over £500 net profit last year; books properly kept; good position; well fitted and stocked; price £1,150; personally recommended.

20.—LONDON (Essex Suburb).—£225 secures a sound Light Retail, at present doing £11 weekly under manager; plenty of scope; good position; low rent; only requires seeing.

VALUATIONS FOR STOCKTAKING. Have you read our pamphlet on the necessity and advantages of Stocktaking? It should be read by every Chemist in business. Sent free on application, together with our new and revised terms. 42 years' practical experience.

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COLONIAL BUSINESSES.

We call the special attention of our Colonial subscribers to the opportunity this Supplement affords when they wish to dispose of their Businesses, of getting into touch with likely buyers either at home or in the Colonies.

LETTERS in reply to Advertisements may be addressed to this Office, and will be forwarded to the Advertiser for an additional charge of 6d.

Trade circulars, samples, and printed matter can in no case be forwarded.

ACCRINGTON.—For Sale, good, clean Chemist's Business; splendid fittings, well-mirrored shop, etc.; fittings £75, or nearest offer; buying of stock not necessary; exceptional offer; developing Wholesale. Heaton, Chemist, Accrington.

BERKSHIRE.—Rising Suburb, no opposition.—For Sale, good-class Family Business, doing about £10 weekly; could be much increased and Dentistry added; price about £450 for lease, stock, fixtures, etc. Apply, John Hodge, Solicitor, Weston-super-Mare.

GLAMORGANSHIRE.—For immediate Disposal, an old-established Cash Business; good house; grand opportunity and bargain for an energetic man; will sell at low valuation; cause of disposal ill-health. "Chemist" (174/40), Office of this Paper.

HERTS.—Genuine Business for Sale; established 45 years; no opposition; plenty of scope; Agricultural and Family trade; returns £900; could be increased by Dentistry or Optics; expenses small; comfortable house; large garden. Apply to "D. E." (177/35), Office of this Paper.

HOME COUNTY.—Good-class Family, Retail, and Dispensing Business about 30 miles from London; returns nearly £900, increasing; very few Patents; profits about half; convenient premises; low rent; illness sole reason for selling; price about £700, or valuation with small premium entertained. Apply, "T. T." (181/5), Office of this Paper.

HULL.—For Sale, profitable Light Retail and Prescribing Business; main-road corner shop; only changed hands once in 50 years; rent £30; lease if required; net profit about £200; price £250, or near offer, which is value of stock. Apply, 179/8, Office of this Paper.

LINCOLN. in Main Street.—A capital Drug Business for Sale; a splendid opportunity for a pushing young man; will accept a fixed sum or valuation. Apply to D. Jones, 397 High Street, Lincoln.

LONDON, North-West.—For Disposal, as a going concern, a small Chemist's Business in unique position; well-fitted shop; suit young qualified man with enterprise; capable of considerable development; reasonable price accepted; must be sold. Apply, 177/12, Office of this Paper.

LONDON, N. (Stoke Newington).—Drug Store; well stocked corner shop (large windows) in thickly populated locality; average takings £8 to £9 weekly; very profitable; unable to give personal attention; to effect a quick sale would accept £150; worth £250; rent £40, let off £30. 181/11, Office of this Paper.

LONDON Suburb.—Well-established Cash Retail Business, in fine shopping centre; returns £2,000; net profit £500; modern-fitted shop, well stocked; low rental; valuable lease; will accept first offer of £900; only cash buyers entertained; business will stand fullest investigation. Address, "Zeto" (181/800), Office of this Paper.

MIDLANDS.—Old-established General and Country Business for Sale; opening for Dentist and Optics; good Prescribing; good centre for farmers; returns average over £500; well stocked; good house; good reason for disposal; suit young man willing to push; rent £35, with lease. Apply, 176/25, Office of this Paper.

SOUTH COAST.—A select Family Retail and Dispensing Business for Disposal; about 2,700 new Prescriptions dispensed yearly; no Photographic or Optics; returns nearly £1,350, yielding a clear net profit of over £400; large house at low rental; splendid position; price £1,000. Address, "Otto" (181/80), Office of this Paper.

SOUTH DEVON.—In rapidly growing seaside town, high-class Business, in best position in principal street; established 20 years; returns about £900, increasing, and very profitable; 21 years' lease given. "Pharmacist" (180/4), Office of this Paper.

BEST position improving town, Thames Valley, 18,000, four Chemists.—Vendor, ordered abroad immediately, will accept first offer, say £300; modern single-fronted shop, lobby entrance, well fitted, mirror-backed; good house, 7 rooms, small garden; rent £55; returns £800; nice Optical nucleus; few Extractions; can easily do £1,200; neglected from ill-health. "Amicus," 36 Woodstock Avenue, Golder's Green, N.W.

CASH Drug Stores, with Prescribing, Dentistry, and Photo Materials; several valuable Proprietaries; an old-established, well-stocked Business on South Coast; held by vendor 13 years; returns over £700; net profit £290; rent £35; price £350 net; every assistance given to purchaser; no agents. 178/35, Office of this Paper.

CHEMIST'S and Druggist's Business for Sale as a going concern in populous district of Manchester, through illness of the proprietor; Dispensing and Prescribing; corner shop on busy main road, with good living accommodation; rent £50; returns £1,000. For further particulars and to view apply Mellors, Basden & Mellors, Chartered Accountants, 18 Exchange Street, Manchester, and King John's Chambers, Nottingham.

FOR immediate Disposal, small Business in thriving country town, situated main street; double-fronted shop, with house attached; fixtures and fittings new; turnover £500, with good scope for increase; rent low (£28 and rates); satisfactory reasons for disposal and no reasonable offer refused. Dyson, Alfreton, Derbyshire.

NO reasonable offer refused for a profitable Prescribing Business doing about £450; average 6s. 6d. per week Patents; also the premises, which are new, together or separate; increased turnover each year; healthy man could increase it more rapidly; populous district; nearest opposition 3 miles. Apply, "Chemist," West Auckland, Co. Durham.

PROFITABLE little established Branch, N. London, returning under unqualified manager nearly £700; nice, modernly fitted shop, in plate glass and mahogany; attractive front; fair house, in good repair; low rental; quick small Drug sales; few Patents; situate in rising busy market; price, valuation of stock and £30 goodwill; fixtures may be rented, or will sell stock and fixtures valuation and no goodwill; satisfactory reasons for disposal. "Z. Z." (174/26), Office of this Paper.

SMALL Business for Sale, N.W. Suburb, 10 miles out; neighbourhood increasing; nearest opposition half mile; excellent opening for Dentistry and Optics; proprietor has had appointment offered and wishes to dispose at once; references will be given and required; good opening for one starting in business. "Rhet" (180/25), Office of this Paper.

£120 or nearest offer. — Must be Disposed of immediately, owing to affliction of proprietor (under specialist's orders), an exceptionally profitable Prescribing and Surgical Business, London Suburb; main road; unopposed; established 80 years, and only changed hands twice; doing £5-£5 10s. average weekly; gross profits average £3 15s., net £2 15s.; suit unqualified; rent only £50 p.a.; part of house could be let off; a genuine business and a sure living; first offer nearest above secures it. Write, "Statin" (178/32), Office of this Paper.

AGENCIES.

COLONIAL.—Local Agents wanted in Fever districts for a Proved Malaria Specific; liberal margin of profit in handling. Buying agents please apply 146/4, Office of this Paper.

HIGH-CLASS Medicated and Toilet Soaps and Toilet Requisites. Wanted, by old-established firm of Soap Makers, Agents having a good connection amongst Chemists, Druggists, and Hairdressers in the London, Midland, Lancashire, and Yorkshire districts. Apply, 51/34, Office of this Paper.

INDIAN TRADE.—A neat and scientific Medical Requisite, of altogether exceptional merit, which appeals to every Doctor, and which is rapidly spreading throughout the world, is about to be introduced into India; a firm of repute in India and canvassing the Profession required as Agents; or a Syndicate of Travellers could acquire and work it to great advantage; opportunity to investigate only to those who show that business is intended. 181/5, Office of this Paper.

TRAVELLER, residing in Johannesburg, calling on Chemists, Hospitals, and Government Institutions throughout South Africa, would like to take up special lines that would not clash on a commission basis and part expenses. Apply, "C. B." (156/28), Office of this Paper.

WHOLESALE you want business; if you have live selling Proprietary articles, two specialist distributors are prepared to take over Representation for the U.K.; unique connection; success assured, but liberal terms necessary. "Wholesaler" (175/2), Office of this Paper.

TENDERS.

TO MILLERS, CATTLE-MEDICINE MANUFACTURERS, VETERINARY CHEMISTS, etc.

TENDERS are hereby invited for the whole of the undertaking known as the Phoenix Veterinary Supplies, Ltd., and Kincannon & Cole, Ltd. (amalgamated), now being and having for many years been carried on at the Phoenix Mills, Farm Street, Hockley, Birmingham, consisting of the goodwill (about 2,000 customers), Recipes, Printed Labels, and Advertising Matter relative to the celebrated Green's Veterinary Preparations established by the late Frederick Green in 1860, stock-in-trade comprising Horse and Cattle Foods and Condiments, Artificial Calf Feeders, Cows' Relief, Horse, Cattle, Dog, and other Animal Medicines, together with a large stock of Drugs, Chemicals, Spices, Seeds, also Packing Materials, etc.

The plant consists of 15 h.p. Crossley Gas Engine, 10-ton Day's Weighbridge, 5 small portable platform Weighing Machines, to weigh to half a ton, 2 pairs Edge Runners, 2 pairs French Stones (2 ft. and 4 ft.), 2 pairs Derby Stones (3 ft. 6 in. and 4 ft.), 2 Disintegrators, Shafting, Belting, Pulleys, 2 Pulley Blocks (1 ton and $\frac{1}{2}$ ton), 2 pairs Steel Rolls, 1 Bean Splitter, 4 Dressing Frames, various Sieves, Set of Spice Stampers, 1 large Drilling Machine, small 1 h.p. Gas Engine, and a large variety of assorted Tools and Appliances, General Office Furniture and Fittings, Warehouse Fittings, etc.

Tenders can be submitted for the whole or parts.

Forms of tender and all information can be obtained from, and tenders should be posted to reach, the undersigned Liquidator of the said Phoenix Veterinary Supplies, Ltd., at my offices, 115 & 117 Colmore Row, Birmingham, not later than first post on Saturday, October 12, 1912.

Dated this 24th day of September, 1912.

JOHN W. HINKS, Liquidator.
The desirable Freehold Property, comprising the said Phoenix Mills, covering an area of 1,100 square yards or thereabouts of land, situated in one of the busiest parts of Birmingham, also for sale.

PARTNERSHIPS.

DUBLIN.—Wanted, young qualified Chemist as working Partner in an old-established business; best position in Dublin. Replies to G. Goodfellow, 17 Wentworth Place, Dublin.

A YOUNG Chemist, Major qualification, who has had first-rate experience in Wholesale, Retail, and Hospital, desires interest in small Manufacturing concern; best references given and required. Apply 176/9, Office of this Paper.

PHARMACIST (32), single, at present in business in North London, would like a Partner (single), with about £200 capital, with view to extending business, or would open up a new branch if desired; a lady or gentleman would be considered; equal share in the business. Replies to 178/20, Office of this Paper.

TO anyone with money-making ideas and ambition (in any branch of the trade) I will join in Partnership or otherwise; my capital and ability to mutual benefit; sound propositions only entertained. Please give full particulars, in confidence, to "Qualified" (176/27), Office of this Paper.

YOUNG Pharmacist, well educated, and with good West-End experience, desires Partnership in high-class business (London); would serve probation as Manager or Assistant if desired, or would join another Pharmacist in purchasing a business. "Bene" (179/27), Office of this Paper.

BUSINESSES WANTED.

WANTED, a good Cash Retail Business where there is scope for increase, showing net profit of not less than £250-£300; must be open to every investigation. Send full particulars and price required to "Nemo" (179/270), Office of this Paper.

LOCK-UP Chemist's Shop wanted in busy thoroughfare by Medical man, for Surgery and Dispensary, in town; must be moderate. Write, "Medicus," Livingston's, 229 Finchley Road, Hampstead.

FOR SALE.

FOR Sale, sole right of several high-grade Perfumes; Queen's patronage; numerous testimonials; registered trade-mark; especially suitable for Toilet Specialists doing a high-class postal trade, good class Chemist, or Wholesale firm with capital. 177/33, Office of this Paper.

TO LET.

COMMANDING corner Premises, also smaller one partly fitted up, to Let; good opportunity for Chemist and Druggist, also Dentistry; large neighbourhood; no opposition; good house; very low rental. Keys at Caretaker, Central Market, 274 Hither Green Lane, Lewisham, S.E., or conditions of Owner, "F. H.," 65 Holland Road, Kensington.

THE Proprietors of the Elephant Hotel, Market Place, Pontefract, the very best shopping centre, are rebuilding the front and invite applications for three Shops, or can be made into one or two as applicants desire. Address, in first instance, 49/58, Office of this Paper.

APPRENTICESHIPS.

A FIRM of Analytical and Consulting Chemists, with manufacturing connections, have a vacancy in their Analytical and Manufacturing Laboratory for a well-educated youth as Articled Pupil; good experience obtained; premium required. 151/21, Office of this Paper.

WELL-EDUCATED youth wanted; 3 years' apprenticeship; no premium required; time for study. Willis, Dispensing and Family Chemist, Lyndhurst, Hants.

SITUATIONS OPEN.

3s. 6d. for 50 words or less; 6d. for every 10 words or less beyond, prepaid.

NOTE.—Replies can be addressed to this Office and forwarded to the Advertiser for an Additional charge of 6d.

TO SAVE TROUBLE.

MANY correspondents answering advertisements in this Supplement enclose remittances to cover the cost of forwarding their letters to advertisers who prefer to be addressed c/o this Office. The Publisher desires to make it clear that this is quite superfluous, and perhaps this reminder will obviate the necessity of the frequent return by him of such remittances.

ANSWER IN TERMS OF THE ADVERTISEMENT AND

REMEMBER you are one of possibly hundreds applying for the same position. Put your case before the advertiser so that he may be able to form a **MENTAL PICTURE** of your suitability.

BE BRIEF BUT CLEAR—Millions of applications are consigned to the waste-paper basket **UNCONSIDERED**, because the reader cannot form this picture from the inadequacy of the materials set before him.

RETAIL.

CARDIFF.—Qualified Assistant wanted in October. Apply, with references, photo, and salary required, Frank Edwards, 192 Cowbridge Road, Cardiff.

CARDIFF.—Wanted, a Junior, gentlemanly, with experience, in a good-class business. Apply, D. Harries, Pharmacist, 102 Queen Street, Cardiff.

CARDIFF.—Unqualified Assistant wanted; age 26-30; good worker essential; outdoors; 30s. week. Send copy of references, Hagon, 5 Bute Street, Cardiff.

CROYDON.—Assistant wanted at once; age 23-26. 181/17, Office of this Paper.

HYDE.—Wanted, for a good-class Mixed business in manufacturing town near Manchester, a smart, qualified, up-to-date Assistant; must be good Counterman and Dispenser; outdoors; reasonable hours; no night or Sunday duty; comfortable berth to a suitable man. Send full particulars, with photo, in first letter, Geo. Wild, Chemist, Hyde.

LIVERPOOL.—Wanted, a smart Junior Assistant, about 24; must be a capable Dispenser; good appearance and gentlemanly; accustomed to high-class Retail and Dispensing; outdoors; state height, age, salary required, enclosing photo. Apply, G. H. Cole, The Pharmacy, Blundellsands.

LIVERPOOL.—Assistant for good Retail and Dispensing business; Photography; outdoors. Full particulars, stating salary and enclosing photo, to A. W. Ashcroft, 112 Aigburth Road, Liverpool.

LIVERPOOL District.—Young Junior or Improver; arrangement for study if desired; reasonable hours; good-class Cash Retail and Dispensing. Gordon, Birkenhead.

LONDON, West End.—Wanted for October 1, a qualified Assistant, accustomed to good-class business; indoors. Apply, giving usual particulars, to H. S. Hairsine, 47 Haymarket, London.

LONDON, S.W.—Qualified Assistant; age about 23 years; good Dispensing experience essential. Apply, giving full particulars, to Secretary, Cooper, Son & Co., 80 Gloucester Road, South Kensington.

LONDON, N.—Wanted, young qualified Assistant (indoors) for Dispensing business; comfortable quarters and reasonable hours. Full particulars to Saunders, 50 High Street, Highgate.

LONDON, S.W.—Qualified Assistant to help with a Branch shop in a working-class neighbourhood; outdoors, or to live on premises; moderate salary and liberal commission; succession would be entertained if desired. Apply, "Macanteo" (177/39), Office of this Paper.

LONDON, West End.—Wanted for October 1, a competent Assistant, about 25 years of age, accustomed to good-class business; indoors. Apply, stating salary and experience, to 177/27, Office of this Paper.

LONDON, S.E.—Qualified Manager wanted at once for small business. Send full particulars, age, recent references, etc., to "X." (178/12), Office of this Paper.

LONDON, W.—Junior Assistant wanted at once; must be good Dispenser; outdoors. Apply, Whitmore Baker, Pharmacist 288 Elgin Avenue, Maida Vale, W.

LONDON, N.W.—Qualified Assistant wanted (outdoors), age about 25-27 years, with good Dispensing and Counter experience in good-class Pharmacies. Personal application preferred, if by letter state full particulars, salary required, and enclose photo, T. F. Elton, 28 Endsleigh Gardens, Euston Square, N.W.

LONDON, N.—Assistant; indoors; salary £40 to £50, according to experience; hours 8.30 A.M. to 10 P.M.; half day off weekly; alternate Sunday duty (evening only). Apply, stating experience, when disengaged, and giving names of references, "Chemist," 360 Amhurst Road, Stoke Newington, London, N.

LONDON, S.W.—Immediately, good Junior or Improver, used to good-class Dispensing business. Apply personally, or if by letter give full particulars as to experience and salary required (indoors) to C. A. Hopkins, 105 High Street, Putney, S.W.

LONDON.—Required immediately, qualified Assistant for busy Cash business; one desirous of making progress in the profession preferred. State age, salary required, and references, 62/2, Office of this Paper.

LONDON, W.C.—Qualified Assistant, about middle October, not under 25; good Counterman and Dispenser; outdoors. Apply, with full particulars, 181/22, Office of this Paper.

MANCHESTER.—Wanted, Junior or Improver for 3 months; may arrange permanency to good man; middle-class cash business. State age, height, salary, and all particulars, copies only of references, to Lockwoods, Ltd., Chemists, Harpurhey, Manchester.

OLDHAM.—Qualified Assistant for brisk Retail trade; must be quick and reliable, a good Salesman. State age, height, experience, references, and salary required, enclosing photo, 174/30 Office of this Paper.

OLDHAM.—Qualified Assistant for brisk Retail trade; must be quick and reliable, a good Salesman. State age, height, experience, references, and salary required, enclosing photo, 174/30, Office of this Paper.

PUTNEY HILL.—T. Jones & Co. require at once an unqualified Assistant; must be accustomed to Dispensing business and have good references; age about 24. Apply personally, in morning, or by letter, to Mr. Amore.

SEAFORD.—Wanted, an Assistant; age about 26 years; must be reliable, good Counterman and Dispenser; outdoors. Apply, L. Cameron, Pharmaceutical Chemist, Seaford, Sussex.

TUNBRIDGE WELLS.—Qualified Junior Assistant (indoors) for Dispensing business; principal non-resident. State usual particulars, salary required, enclosing photo, Howard & Son, Pharmacists, Tunbridge Wells.

AN Assistant wanted at once, with a view of purchasing a Chemist's business in a populous colliery district, Glamorganshire; returns between £800 and £900; Patents under £200; no opposition; valuable Proprietorship; or to an immediate purchaser £350 will be accepted; a chance seldom met with. 177/32, Office of this Paper.

ASSISTANT wanted, experienced at Counter, good Salesman. State age, height, references, and salary required (outdoors), Duck & Son, Chemists, Cardiff.

ASSISTANT, about 21, wanted, about October 8, for good-class Retail, Dispensing, and Photographic; a knowledge of Developing and Printing is essential; a Junior entertained if well recommended. Please state full particulars of past experience and salary required (indoors) to Dunning, Chemist, Ventnor.

ASSISTANT wanted; live out. Apply, stating age, salary, and reference (age about 20 years), to Wilkins, Ltd., Chemists, Perry Barr, Birmingham.

ASSISTANT (young) wanted at once, chiefly for Retail Counter; time off who-e-day one week and half day the next, alternately; also vacancy, second week in October, for qualified Assistant, chiefly for Dispensing. Please state age, experience, references, salary, etc., in first letter, or apply personally, to Bishop & Vincent, 460 Holloway Road, London.

ASSISTANT, unqualified, indoors, good reference and steady habits essential, for Light Retail and Dispensing business; very comfortable berth. Apply personally (if by letter, give full particulars), Graham, Pharmacist, 9 Station Parade, Willesden Green, London, N.W.

ASSISTANT wanted at once, capable of taking charge, in small Branch Drug Stores; moderate salary; duties light; no Sunday work; an energetic, middle-aged man not objected to State salary required, etc., to "D.", Messrs. Evans Lescher & Webb, 60 Eartholomew Close, E.C.

ASSISTANT for first-class Dispensing business; short hours; must be quick and accurate Dispenser; would prove comfortable situation to suitable man; age not under 25. Photo, age, salary, and full particulars, "Fugol" (60/5), Office of this Paper.

ATKINS & SON, Salisbury. require a qualified Assistant, as second or Junior (outdoors) to commence on Monday morning, October 14; must be accurate Dispenser and possess good Photographic knowledge. State salary required and reference, and enclose photo, to W. R. Atkins, 39 Castle Street, Salisbury.

RESULTS
OF ADVERTISING IN THIS SUPPLEMENT
LAST WEEK Sept 21 1912
NATURE OF ADVT. REPLIES

TRAVELLER FOR THE UK.	41
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This Blackboard demonstrates that Advertisers using these columns get a ready response to their announcements. The figures only refer to some of the letters RECEIVED AT OUR OFFICE on behalf of Advertisers who use a number or name of place.

CHEMIST-DENTIST required by Company; best site in London, with suites of rooms; capable doing large turnover; exceptional opportunity offered to gentleman who can invest £500 to £1,000. Address, "Dens" (181/4), Office of this Paper.

EXPERIENCED unqualified or qualified Assistant wanted at once; country town, Kent; age 25-30; General, Photographic, and Agricultural business; permanency; abstainer preferred; easy hours. Apply, stating experience, salary required, height, references, etc., to 178/30, Office of this Paper.

JUNIOR wanted; short hours; half-holiday; seaside; no duty after hours. Send photo and full particulars of height, experience, and references, W. E. Rees, M.P.S., Chemist and Optician, Barry, Glam.

JUNIOR Assistant wanted; age about 20; outdoors; used to good-class business. Apply, with full particulars of experience, &c., and enclose photo if possible, to Francis Rose, Boscombe Pharmacy, Bournemouth.

JUNIOR or Improver; outdoors; good Salesman and Window-dresser; must be of good address and a gentleman. Give fullest particulars, with references and photo, Jacks, Stone, Staffs.

LADY Pharmacist wanted for Light Retail business in pleasant country town near London; duties light and reasonable hours; comfortable post for an energetic and adaptable qualified young lady; at once or shortly. Apply, with full particulars, to 177/31, Office of this Paper.

LEWIS & BURROWS require the services of two or three unregistered Assistants with good Counter experience; excellent opening for competent middle-aged men. Enclose full particulars and photograph to 146 Holborn Bars, E.C.

MANAGER, to take complete control single-handed of Branch business in Thames Valley; must be qualified for Optical work. State age, height, salary required (outdoors), experience with photo and recent references, Parson C. Baker, 174 Victoria Street, S.W.

PHARMACY Waldorf, W.C.—Manager (outdoors), qualified, required at once; West-End experience; short hours; also Junior for Branch business; live in. Apply, 60 Denmark Hill, S.E.

QUALIFIED Assistant for good-class Dispensing and Light Retail; indoors. Apply, John Cooper, Pharmacist, Weston-super-Mare.

QUALIFIED Assistant required; early prospect of management; good and progressive salary; short hours. Apply, Timothy White Co., Ltd., Chemists, Portsmouth.

QUALIFIED Assistant (outdoors) wanted for a progressive quick Cash business; must be a good Counterman and Dispenser; permanency for a suitable man; half-holiday; no Sunday duty. State age, send photo if possible, salary required, along with full particulars, Hankeys, Ltd., 10 Colne Road, Brierfield, near Burnley.

QUALIFIED Assistant, single (outdoors), required in good-class Dispensing and Retail. Apply, with full particulars of age, height, experience, references, salary required, when disengaged, and enclose photo, to W. A. Bell, Chemist, Southsea.

QUALIFIED Assistant; good Dispenser; knowledge of Photography; excellent opportunity for one desirous of all-round experience of good-class business. Send full particulars as to salary, references, and photo (permanency to suitable man), Marsh, Chemist, 270 West End Lane, West Hampstead, N.W.

QUALIFIED or unqualified Assistant wanted for country business; age 40 to 50; abstainer preferred; highest references required. All particulars, 62/4, Office of this Paper.

RELIABLE Assistant wanted; indoors preferred. Apply, Wade, Chemist, Llanelli, S. Wales.

SENIOR, qualified, about 24, for good-class Dispensing business. Apply, with full particulars, to J. Parrott, Pharmacist, Richmond Hill, Surrey.

UNQUALIFIED, age about 30; quick Counterman, with knowledge of Country and Agricultural trade preferred. State age, height, salary required (outdoors), and references in first letter (no photo), 60/74, Office of this Paper.

UNQUALIFIED Assistant wanted for quick Cash business in Kent; married preferred. Write, stating age, experience, and usual particulars, to 62/02, Office of this Paper.

WANTED, Junior Assistant, well up in Dispensing; time allowed for evening classes if necessary. Pryor, Chemist, Beckenham.

WANTED, an Assistant, about 23 to 25 (qualified), for Dispensing business. State age, height, salary (indoors), when disengaged, experience, if Dispensing and Photography, names of two last employers, and time with each, 179/14, Office of this Paper.

WANTED, Junior Assistant (outdoors), about 21. Apply, with particulars, to L. H. Knight, 3 The Exchange, Purley, Surrey.

WANTED, Branch Manager, qualified, early in October; outdoors; must be an experienced Dispenser and good Counterman, accustomed to good-class business; abstainer; permanency to suitable man; full particulars, with references and photo in first letter. Apply, W. Barker, 9 Grimsby Road, Grimsby.

WANTED, Junior Assistant (outdoors) for a Dispensing and General business. Address, with usual particulars, "Chemist," 19 Azalea Terrace North, Sunderland.

WANTED, a smart Junior as Assistant; must be used to quick Cash Retail. Apply, with full particulars, to Griffiths, Chemist, Droylsden.

WANTED, early in October, Assistant, about 25, for first-class Retail and Dispensing; must be a good Salesman, competent Dispenser, and possess good references. State age, height, and full particulars, with photo if possible, Bailey, 61 Old Dover Road, Blackheath.

WANTED, for Princess Christian Hospital, Weymouth, fully qualified Lady Dispenser, to live in; £30 per annum, with board and uniform. Application, with copies of testimonials, to be sent to the Secretary.

WANTED very soon, Junior; unqualified; indoors; about 21; gentlemanly and accustomed to good-class Retail, Dispensing, and Photographic business; hours 8 A.M. till 8 P.M.; alternate Sundays and evenings; Wednesday early closing. Full particulars, references, and photo (to be returned) to F. H. Blissett, Victoria Street, Clifton, Bristol.

WANTED at once, good Junior, qualified preferred; good experience essential. Apply, "T. B.," 18 Exmouth Street, E.C.

WANTED, qualified Assistant for Stock and Wholesale; South Coast. Apply, with full particulars of experience, age, and salary required, to 180/35, Office of this Paper.

WANTED immediately, a young qualified Assistant for a Suburban business; hours moderate; duties light; outdoors; no Sunday duty. Apply, by letter, giving full particulars (applications not answered within three days respectfully declined), Newmarsh, 25 Chelsham Road, Clapham, S.W.

WHOLESALE.

A WELL-ESTABLISHED London house of good standing requires the services of an experienced, energetic Representative, to call upon Medical Men, Hospitals, and Institutions for the sale of Drugs, Surgical Instruments, Dressings, and Hospital Furnishers, etc. In reply please give full particulars of past experience, ground covered, age, salary required, and state if disengaged, 179/2, Office of this Paper.

ARTIFICIAL Limbs and Orthopaedic Work.—Man wanted to assist in this Department, with view to permanency. Apply, 61/8, Office of this Paper.

COMPRESSED Tablets.—Young man, with some experience required at once by Manchester firm. "Menthol" (60/57), Office of this Paper.

IMPORTANT Company, manufacturing a Pharmaceutical Tonic, requires immediately a qualified Chemist as Medical Manager, to introduce the product in England; the appointment (liberal remuneration, common on sales, and travelling expenses paid) offers very good prospects to a competent man with a small capital as guarantee; the tonic, prepared by eminent doctors, has been most successfully established in France, where it is adopted and purchased by the French Government. Write to Mr. Pierre Courthial, 18 King's Arcade, Market Street, Bradford (Yorks).

IMPORTANT Agency offered to first-class Representatives with connection among Chemists for all parts of the United Kingdom; small sample; large commission; districts now being fixed. Apply, with full particulars, in confidence, 180/32, Office of this Paper.

QUALIFIED man; age about 24, wanted by a London firm of Wholesale Druggists for a vacancy on their indoor staff; candidates should possess a thorough business training, be good Salesmen and of courteous address, as the duties of the position include interviewing medical men. Apply, with full particulars of previous experience, stating age, salary required, etc., to 62/15, Office of this Paper.

REQUIRED for South and East Coasts, a Traveller for high-class Perfumery and Toilet Soaps; must have good connection amongst Chemists and Stores. Apply, with full details of experience and remuneration required, to "S. & E. C." (175/24), Office of this Paper.

REQUIRED by old-established firm manufacturing Essences, a first-class Representative for London, already calling on Wholesale Confectioners, Perfumers, Chemists and Druggists, on commission only. Write to "Essences" (181/23), Office of this Paper.

TRAVELLERS' Manager required; must be smart, used to the control of men, and acquainted with the best modern methods for stocking Chemists with articles for which there is already a good public demand; good salary and splendid prospects to the right man. Apply, in the first instance by letter only, to F. Erwood's Advertising Offices, 30 Fleet Street, London, E.C.

WET Floor.—Competent Counter hand, aged about 23-24, wanted by London Export Druggists. Write, stating full particulars of previous experience, wages expected, and if disengaged, to 20/370, Office of this Paper.

WHOLESALE Drug Trade.—Messrs. C. J. Hewlett & Son, Ltd., have a vacancy for an experienced Warehouseman in their Export department. Apply, by letter only, stating age, experience, and salary required, to "E. J. M.," 35/42 Charlotte Street, E.C.

SITUATIONS OPEN

(Colonial, Indian, and Foreign).

3s. 6d. for 50 words or less; 6d. for every 10 words or less beyond, prepaid. Replies addressed to this office will be forwarded to the advertiser for an additional charge of 6d.

BOLIVIA, South America.—Unqualified Assistant for good-class business; proprietor English; 3 years' engagement; £150 first year, £175 second year, and £200 third year; good prospects; second-class return passage; room provided; full references required; no objection to treat with qualified man at a reasonable advance on salary offered. Address, "J. M. T.," Evans Sons Lescher & Webb, Ltd., 56 Hanover Street, Liverpool.

BURMA.—Required, Manager; qualified man; single; between 30 and 35 years; abstainer; 4 years' agreement; passage paid out and home; salary Rs. 500 per month and bonus. Send particulars to 51/600, Office of this Paper.

CALCUTTA.—Wanted, qualified (Minor) Assistant, single, under 25; character must bear strict investigation; 4 years' agreement; salary first year Rs. 225, second year Rs. 250, third year Rs. 275, fourth year Rs. 300 monthly; passage paid out and home. Send full particulars of experience, etc., to 181/7, Office of this Paper.

CAPE COLONY.—Qualified Assistant wanted, to take charge of Branch in small country town; salary £18, £19, £20 for first, second, and third years; second-class passage paid. Apply, with particulars of experience, to "W. K.," c/o John Murdoch & Co., 52 Leadenhall Street, London, E.C.

CAPE TOWN.—Qualified Assistant; single; about 25 years of age; good Dispensing experience; 3 years' engagement; £15, £16, and £17, bedroom found; second-class passage paid out. Apply, with copy testimonials, to 51/60, Office of this Paper.

CAPE TOWN.—Qualified Assistant required; salary £20 monthly; age about 26; passage paid. Please apply, "R. L.," c/o S. Maw, Son, & Sons, 7 to 12 Aldersgate Street, E.C.

CAPE TOWN.—Required urgently, a good qualified Junior Assistant; single; second-class passage paid out; salary £15 per month first year, £16 per month second year, £17 per month third year; sleeping accommodation provided; must be neat and accurate Dispenser. Apply, 39/51, Office of this Paper.

CEYLON.—Qualified Assistant (Minor) wanted for Ceylon; 23 to 25 years of age; single; good Salesman; pleasant address; Optics an advantage; 4 years' agreement. Apply, giving full particulars, to 51/2, Office of this Paper.

JAPAN.—A thoroughly capable, gentlemanly, young man, about 25, qualified, required for a first-class English Chemist's in Japan; 5 years' agreement; passage paid out and home, and liberal terms to suitable candidate. Apply, with full particulars of previous experience, to 20/37, Office of this Paper.

NATAL.—Required immediately, qualified Assistant, age about 24 to 28; 3 years' agreement at £18, £19, and £20 per month; passage paid out, with £5 expenses *en route*; total abstainer; excellent references required. Apply, 37/15, Office of this Paper.

SINGAPORE.—Wanted at once, a young qualified Chemist, unmarried, age 23 to 28, to take entire management of Chemist's shop in Singapore (Limited Company); must understand stock and other accounts; salary £300; 5 years' agreement; first-class passage. Apply by letter, enclosing stamped addressed envelope, to "E. G.," 75 Chelverton Road, Putney, London, S.W.

SOUTH AFRICA.—Qualified Assistant wanted for Johannesburg, also one for Pietermaritzburg, Natal; good-class Retail businesses; capable young men; 3 months will be allowed, if necessary, for closing up present engagements; second-class passages paid; good salaries. Apply, with full particulars of experience, to "Drug," c/o John Murdoch & Co., 52 Leadenhall Street, London, E.C.

WANTED, Straits Settlements, Assistant, qualified, about 23 to 26, with good knowledge of Photography and Optics and good all-round experience; 4 years' agreement; salary £245, advancing to £335; free rooms and medical attendance; passage paid out and home. Apply, with full particulars, to Dakin Brothers, Ltd., 82 Middlesex Street, Bishopsgate, London.

SITUATIONS WANTED.

1s. for 12 words or less; 6d. for every 10 words or less beyond, prepaid.

NOTE.—Replies can be addressed to this office and forwarded to the Advertiser for an Additional charge of 6d.

[HOME.] RETAIL.

A. HAWTHORNE, Pharmacist, late of Brentford, W., desires a post as Dispenser; outdoors; excellent references; strict abstainer; reliable; or Locum. Address, 68 Beckenham Road, Beckenham, Kent.

ASSISTANT (28), experienced, desires situation in London with facilities for attending classes preferred. Apply, "Statim" (178/36), Office of this Paper.

ASSISTANT (21) requires situation in country town with good train service to Manchester; easy hours to facilitate studying; 7 years' thorough training with busy up-to-date Retail, Dispensing, and Photographic business; capable Window-dresser, Dispenser, and Counterman; disengaged October 12. Harrison, Laund, Nelson.

ASSISTANT; 24; tall; Dispenser, Counterman; good appearance; well recommended. "Statim," Trensale House, Polesworth, Warwickshire.

ASSISTANT; disengaged; Mixed trade, Prescribing, Extracting, Photography; not qualified; age 38. "Rhei," 40 Lindum Street, Rusholme, Manchester.

ASSISTANT; 39; disengaged; experienced; references; single; Dispenser. Dale, 11 Park Lane, Clissold Park, N.

ASSISTANT, experienced, seeks immediate permanency; well up in Retail business. Thomas, 40 Patshull Road, Kentish Town, N.W.

ASSISTANT; unqualified; 22; tall; of good address, smart and capable, with good Dispensing, Photographic, and Counter experience. 178/6, Office of this Paper.

ASSISTANT; disengaged 1, 2, or 4 half-days at 2 P.M.; best of references; take charge of Dispensing. "Rhei," 309 Euston Road.

ASSISTANT; experienced; tall; unqualified; 35; disengaged; single; permanency desired. "Radix" (179/33), Office of this Paper.

ASSISTANT requires situation (outdoors) in good-class Dispensing business, with view to permanency; town or country; age 25; married. "F." (180/28), Office of this Paper.

ASSISTANT; disengaged; 24; tall; first-class Dispensing and Counter experience. 178/33, Office of this Paper.

ASSISTANT or Manager; unqualified; married; City, West End preferred; fluent French; tall; Prescribing, Dispensing, Photo, Optics. "Rhei," 153 Borough High Street, S.E.

BRANCH Manager or Assistant; young gentleman; moderate salary; unqualified; all-round experience; height 6 ft. 1 in.; good address; excellent references; would not object to Dispensing or Laboratory work. J. C. Holland, 27 Kimbolton Avenue, Nottingham.

CHEMIST desires post Dispensing (indoors) for daughter (18½); year's experience; time for study, etc. 179/5, Office of this Paper.

CONTINENTAL qualified Assistant (30), smart appearance, fluent French, German, Italian, well up in English, seeks immediate situation. "Switz," 18 Beccleston Street, S.W.

DISENGAGED until October 14; Locum; whole or part time. 36 Ranelagh Gardens, Stamford Brook, W.

DISPENSER, Surgery Attendant, Locum, charge of Branch or open Surgery; married; reliable, competent; unqualified; disengaged. "Chemicus," 14 Calthorpe Street, Bloomsbury.

DISPENSER to Doctor or Institution; disengaged; experienced in Dressings and general routine of Surgery; undeniable references. "Medicos," Pratschayes, Exmouth, South Devon.

DISPENSER or Locum; first-class experience; disengaged. "Dispenser," 13 James Street, Paddington, W.

DISPENSER, Locum or permanent; Nurse desires post, Doctor or Institution; willing to help in Surgery; Hall qualification; good references. "E. E. A.," 4 Shenley Road, Peekham, S.E.

DISPENSER; situation wanted in London; 12 years' experience in Doctor's surgery; bookkeeping, typewriting; age 30; excellent reference. Edwards, 52 Harker Street, S.W.

DISPENSING Assistant; smart; best Retail experience; 34; single. "Codex," 26 Beach Road, Southsea.

18½ requires situation; Photography; abstainer. Evans, c/o J. Ward, Builth Wells, Brecon.

EVENINGS (any) from 6.30; good all-round English and foreign experience; 26; tall. "Vesper," 38 Margate Road, Brixton, S.W.

EVENINGS from 7; excellent varied experience; 27; 5 ft. 9 in.; unqualified; moderate terms. 181/1, Office of this Paper.

EXPERIENCED Manager or otherwise; disengaged; 36; unregistered. "Chemicus," 27 Portsmouth Street, C.-on-M., Manchester.

HOSPITAL Dispenser; Locum; qualified. Irving, 32 Valnay Street, Tooting, London.

JUNIOR; unqualified; 21; abstainer; 7 years' all-round experience, including Photographic; tall; just disengaged; excellent references. Richards, 39 Williams Street, Merthyr Tydfil.

JUNIOR (20), 5½ years' experience, desires situation; London. Mason, c/o Twigg, Chemist, Withernsea.

JUNIOR or Improver requires situation; indoors; 4½ years' experience, Counter, Dispensing, and Photography; excellent references; age 19; height 5 ft. 8 in. Freckleton, Post Office, Abbey Street, Derby.

JUNIOR Assistant wanted for Stock and Counter work; must be quick and obliging and fair writer. Apply, stating full particulars and enclosing carte, to F. Wilde, 100 Brompton Road, S.W.

JUNIOR; 4 years' experience in London and country; knowledge of Dispensing and Photographic; 7½ hours and salary (indoors or outdoors); age 22; height 5 ft. 6 in., to "Chemist," Birch Ville, Norfolk Road, Maidenhead.

LADY Dispenser; Hall qualification; experienced; disengaged. "C.M.P.," 33 Bedford Road, Ilford.

LADY Dispenser (Hall); experienced, careful, reliable; book keeping. 2 Selwyn Road, Upton Manor, E.

LADY seeks post as Dispenser; 3½ years' experience; excellent references. 177/13, Office of this Paper.

LOCUM Tenens. — M. Smith, 15 Rostron Street, Chapel Street, Levenshulme, Manchester, at liberty; moderate terms.

LOCUM; qualified; 36; reliable; disengaged, October 12. 24 Wandsworth Bridge Road, Fulham, S.W.

LOCUM or Branch Manager; disengaged; married; references. Middleton, 5 Bell Street, Stockton-on-Tees.

LOCUM; disengaged; unqualified; 4 years in last situation; splendid references and testimonials; trustworthy; abstainer. Reynolds, 112 Crescent Road, Woolwich.

LOCUM or permanent; qualified; 5 ft. 10 in.; 39; good address and appearance; town and country experience. Longman, 17 York Chambers, Adelphi.

LOCUM; at liberty; qualified; 29; first-class experience. "Chemist," 4 Lansdowne Place, W.C.

LOCUM or Manager; disengaged September 30; highest references; wide experience, North and South. 180/29, Office of this Paper.

LOCUM; qualified; reliable; disengaged 28th. "Chemist," 5 Exchange, London Road, Thornton Heath.

LOCUM or otherwise; disengaged; good all-round experience; well recommended; abstainer; 49; single; unqualified. "Senior," 66 St. Andrews, Uxbridge.

LONDON. — Qualified Assistant (24), excellent experience and references, good appearance, desires situation in City or West End; disengaged about end of October. "Scot," 24 Lady Margaret's Road, N.W.

LONDON.—Time for attending lectures; good references; age 23. State full particulars, "Rowland," c/o Smith, Chemist, Newark.

MANAGER; qualified; town or country; permanency; best references; 14 years' varied experience; accurate Dispenser, good Prescriber. "H.," 207 Munster Road, Fulham, S.W.

MANAGER or Senior; 34; high-class Dispensing, Photographic, and Store experience. "Chemist," c/o Hecilton, 30 Cartvale Road, Glasgow.

MANAGER; 35; qualified; excellent references; good London (City, W., S.E.) and provincial experience. "Chemist," 81 Revelstoke Road, Southfields, S.W.

MANAGER; qualified; elderly; single; good references; moderate salary; disengaged. 178/1, Office of this Paper.

MANAGER or Senior (33), married, in City or West End; first-class West-End and Store experience. "Pharmacist," 39 Avondale Road, Palmer's Green, N.

MANAGER or Senior; qualified; thoroughly experienced Dispenser and Counterman; disengaged October 13; Photography, Dentistry, etc. "Pharmacist," 60 Hinde Road, Harrow.

MANAGER; qualified; 5 ft. 11 in.; Photography, Optics; London. Grimshaw, 13 Gledhow Terrace, S. Kensington.

MANAGER; qualified; Scotch; single; 28; first-class Store experience; Dispensing and Photographic; energetic, pushing Salesman; sober habits; South Coast town preferred, but not essential. "Menthol" (181/13), Office of this Paper.

MANAGER or Locum; London district; excellent experience and references; qualified; disengaged October 7. 180/31, Office of this Paper.

NOTTINGHAM or near.—Senior or otherwise by gentleman of good experience; Prescriber; excellent references. "Cap-sium," c/o 140 Woodborough Road, Nottingham.

PART-TIME (not evenings); London; qualified; very good testimonials. K. Gladden, Ingham Mill, Norwich.

PART-TIME or Dispensing for Doctor; Manchester district; middle-aged; qualified; abstainer; good experience. "Pharmacist," 41 Compton Street, Chesterfield.

PERMANENCY, with or without interest, in sound, brisk business; qualified; single; varied experience; town or country. "Experience" (175/380), Office of this Paper.

QUALIFIED; 39; single; good varied experience; any locality; brisk business. "Permanent" (175/38), Office of this Paper.

QUALIFIED Manager; good references; active; strictly temperate; South or West. 176/16, Office of this Paper.

QUALIFIED Manager, good all-round experience, town and country, married, seeks permanency; willing to work. "Cumbrian," 212 Castellain Mansions, Maida Vale, W.

QUALIFIED; 28; excellent London and provincial experience; outdoors. Lockhart, 1 Boyne Road, Lewisham.

QUALIFIED; any capacity; wide experience; Locum or permanent; disengaged. "Chemist," 48 Coningham Road, Shepherd's Bush.

QUALIFIED Manager; 34; married; good all-round experience; excellent references. "C," 12 Marine Parade, Clacton-on-Sea.

QUALIFIED Manager; 57; active man, reliable; good Counter-man and Prescriber; or as Dispenser to Institution. Address, "Metol," 402 St. John Street, E.C.

QUALIFIED German Pharmacist, having good French and some English experience, desires situation in London; could arrange interview. Holdermann, 40 Petherton Road, Highbury, N.

QUALIFIED; 30; 5 years' West-End and Suburban experience; outdoors; disengaged shortly. Sansom, 72 Southampton Row, W.C.

QUALIFIED Manager; married; all-round experience; disengaged October 5. Gardam, 2 Market Square, Warwick.

QUALIFIED; Manager or Senior; first-class West-End experience. "Dartrig," 393 High Road, Chiswick.

QUALIFIED Assistant at once for high-class Dispensing, Photographic business; must be smart at Counter work. Druce & Co., Chemists, 118 High Street, Oxford.

QUALIFIED Manager; Locum, permanency; experienced; satisfactory references; reliable. "Aspirin," 238 Derinton Road, Tooting, S.W.

QUALIFIED (25), height 5 ft. 10 in., with country, provincial town, and 3½ years' first-class West-End Dispensing and Counter experience, requires situation as Senior in provincial or country town. 179/37, Office of this Paper.

QUALIFIED Manager requires permanent post shortly; outdoors; experienced; married; 45; London. "Calif" (179/21), Office of this Paper.

QUALIFIED; expert Chemist; 34; disengaged; responsible position required; speciality working up for sale, or would accept permanency; outdoors. "R.," 23 Crouch Hill, N.

SENIOR or Management; single; capable all-round man; could work up neglected; 5 years last berth. "Trustworthy" (178/8), Office of this Paper.

SENIOR Assistant or Branch Manager disengaged; first-class experience in London and provinces; aged 33; married; Minor qualification; Eastern Counties preferred; applicant would prefer a personal interview. Apply, 178/38, Office of this Paper.

SMART, energetic Assistant (28), unqualified, free for Locum or Part-time; London preferred; splendid all-round experience, home and Continental. Replies, "Versatile," 181 Brixton Road, S.W.

STOCKKEEPER, Warehouseman; assist Counter; age 28; well up in Drugs and Patents, Photography; life experience; first-class references; disengaged. 179/360, Office of this Paper.

TEMPORARY; thoroughly experienced; smart. Gibson, 115 Scott Ellis Gardens, St. John's Wood.

UNQUALIFIED Assistant; good all-round; Hospital, Dental, Dispensing, Prescribing. 179/18, Office of this Paper.

UNQUALIFIED Assistant; 21; references; disengaged. Thomas, 94 Llewellyn Street, Pentre, Glam.

UNQUALIFIED Assistant; 24; tall; 9½ years' high-class Counter and Dispensing, Photographic expert. Shaw, 86 Frodsham Street, Birkenhead.

UNQUALIFIED Assistant (21) desires time for study, or moderate hours; London district; good country and Suburban experience; good references. Sharman, Lasham's, Romford.

UNQUALIFIED; as Manager or Assistant; reliable; good Counter-man; excellent references. "Pushing" (174/5), Office of this Paper.

UNQUALIFIED Assistant; 23; disengaged; Dispensing; London preferred. Hearne, 92 Fentiman Road, S.W.

UNQUALIFIED; Assistant or Manager; 28; married; experienced; good references. Stenton, Wood Street, Ashby-de-la-Zouch.

UNQUALIFIED; disengaged; Dispenser, Locum, Assist; moderate salary. "Aspirin," 94 Edward Street, New Cross.

UNQUALIFIED; 37; Manager or Assistant; smart appearance and address; Extractor; married; life abstainer. 178/9, Office of this Paper.

UNQUALIFIED; disengaged; 26; excellent experience; good references. 178/14, Office of this Paper.

WHOLESALE.

Trade circulars, samples, and printed matter can in no case be forwarded.

ADDITIONAL Agencies wanted, Drugs, Packed Goods, and Dressings; Lancashire, Yorkshire, and North England. 178/11, Office of this Paper.

ADVERTISER (age 40), tall, good address, gentlemanly, 25 years in the Retail, desires berth as Representative; only small salary required. 180/2, Office of this Paper.

AS Bookkeeper or Secretary to a Druggists' Sundries, Surgical Instrument, or Perfumery firm; 8 years' experience in the trade; highest references. 175/3, Office of this Paper.

CAPSULE Maker.—Advertiser wishes recommend competent man with 20 years' experience making hand-made Gelatine Capsules; references undeniable. Address Room 32, Holborn Hall, W.C.

COUNTER Assistant, Wet or Dry; 10 years' experience. "W. B.," 51 Overstone Road, Hammersmith, W.

EXPERIENCED Traveller, with thorough Wholesale training; qualified Chemist, working Lancashire district, wishes to Represent a good firm. Reply, 178/4, Office of this Paper.

LABORATORY Assistant Foreman; 24; has had first-class experience in Chemicals and Proprietary Articles. "H. D.," 12 Marcia Road, Old Kent Road, S.E.

MAN; 36; good General Working Foreman; hard worker, organiser, and economiser; could travel. "Energy" (176/26), Office of this Paper.

PROGRESSIVE position required by man; 23; good experience in best houses, Despatching, Clerical, or Stockkeeping; can take control. 175/5, Office of this Paper.

REPRESENTATIVE just disengaged; 10 years' experience, London and provinces; highest references; single; abstainer; sound knowledge Essences, Essential Oils, Perfumery, etc. "Capable" (181/2), Office of this Paper.

SMART Youth desires enter Wholesale; aged 18; good experience, references. Kelly, 103 Seaford Road, Tottenham.

TO Manufacturers of Toilet Articles, Chemists' goods, etc.—Lady, young, refined and attractive appearance, desires appointment as Travelling Representative for N.W. Counties; tactful, keen; knowledge of Pharmacy. 176/24, Office of this Paper.

TRAVELLER, with first-class connection and special qualifications, desires to Represent additional house, not Soap; ordinary run of Sundries or Aerated Water; ground 50 mile radius of Chester. Muta, 1 Abbotnook, Chester.

TRAVELLER desires additional Agency, Medical, Veterinary, or Chemists' Sundries; worked same ground over five years; personal connection; part expenses and commission; excellent references. "Enterprise" (177/38), Office of this Paper.

TRAVELLER, qualified (34), desiring change, is open shortly to Represent in Scotland and North England any reputable Manufacturing Pharmaceutical Chemists dealing with Medical Men and Chemists; best credentials; salary, expenses, and commission. 180/19, Office of this Paper.

WAREHOUSEMAN, Packer, Stockkeeper, putting up Orders, or any position of trust; age 28; life experience; first-class references; disengaged. 179/36, Office of this Paper.

YOUNG man (aged 24) seeks situation at Wet Counter; 10 years' experience. 176/32, Office of this Paper.

SITUATIONS WANTED

(Colonial, Indian, and Foreign).

1s. for 12 words or less; 6d. for every 10 words beyond, prepaid. Replies addressed to this office will be forwarded to the advertiser for an additional charge of 6d.

This heading is reserved for assistants seeking situations in the British Colonies, India, and Dependencies; or elsewhere abroad.

A BROAD or Home.—Manager, Assistant, or Locum; several years London, W., Continent; fluent French; Optics, Photographics. "Aspirine," Maple House, Gosberton Rise, Spalding.

CONTINENT or Abroad.—Desired, a permanency by qualified Chemist; first-class West-End London and Continental experience; speaking English, French, German, and Spanish. 176/17, Office of this Paper.

GERMAN, Manager of Paris Pharmacy, desires situation. 59 Pasteur Bd., Paris.

QUALIFIED Chemist, young, abstainer, excellent Dispensing experience, speaks English, Italian, French, German, wants Colonial, Indian, or foreign situation as Manager or Assistant. "Apotheker" (176/10), Office of this Paper.

MISCELLANEOUS.

MCADAM & TUCKNISS, Sharedealers, Bank Chambers, Blackheath, S.E. Established 1898. Telephone 81 Leo Green.

SHARES FOR SALE (free of commission, subject).—100 Allensbury "B" 6 per cent. Preference, 24s. 7½d. e.d.; 100 Idris "A" 6 per cent. Preference, 4s. 8d.; 200 International Sponge 6 per cent. Preference, 14s.; 600 Homoea Ordinary, 9d.; 300 Preference, 1s. 7½d.; 100 Lewis & Burrows Ordinary, 2s. 10½d.; 100 Parke's Drug Preference, 11s. 3d.

WANTED (subject).—100 Barclay Ordinary, 2s. 3d.; 100 Lewis & Burrows Preference, 9s.; 50 Wright, Layman Preference, 21s.; 200 Allensbury's "A" Preference, 23s. 9d. e.d.; 75 John Knight Ordinary, 20s. 1½d.

List of Shares for Sale and Wanted sent free on application. Every effort made to effect business for Buyers and Sellers in all Stocks and Shares. Bankers, London and County and Westminster.

SECOND-HAND CHEMISTS' FITTINGS.—We have an exceptionally fine selection of these in all sizes; prices are right and goods are in first-class condition; we shall be pleased to supply particulars and prices. Call or write, RUDDUCK & CO., 262 Old Street, E.O.

BARGAINS, REAL.—1 12-ft. Drug Fixture, containing 65 Drawers with Gold Labels and Glass Knobs, Lockers Shelving, and Coruice, £8 10s.; 1 6-ft. Wall-case, 8 ft. 6 in. high, cleaned up, £5; 1 Set of 3 Plate-glass Shelves, 3 ft. long, 2 Standard Bars and Brackets, 20s.; 1 6 ft. 6 in. Mirror and Marble Slab Centre Dispensing-screen, 70s.; 66 Stopped Gold-labelled Rounds, assorted sizes, 30s.; 1 2-ft. Perfume-case and Desk, 40s.; 1 10-ft. Counter, with 8 Drawers, 45s.; 1 7 ft. 6 in. ditto, with 6 Drawers, 40s. R. TOMLINSON & SONS, Headquarters for Chemists' Shopfittings, Bond Street, Constitution Hill, Birmingham.

CHEMISTS' SHOPFITTINGS (second hand).—Ranges Mahogany Drawers, Bevelled Edged, Glass Labels, Cut-glass Knobs, Shelving, Lockers; Mahogany Dispensing-screens; Glass-fronted Counters; Piano-fronted Wall-case, Mirror Centre; Bent Front Counter-cases; Desks; complete Shop-rounds, Window Backs, Glass Shelves, etc.; extensive stock; give-away prices; high-class Fittings, bang up to date; Estimates. D. MATTHEWS & SON, 14 & 16 Manchester Street, Liverpool.

CHEMISTS' Shopfittings.—Window Enclosures, Showcases, Silent Salesman, Dispensing Screens, Wall-cases, Perfume-cases, Glass-front Serving Counters, Drug Drawers, Counter Drawers, second-hand, shop soiled, at unbeaten prices; you can't do better; 30 years fitting Pharmacies. Send for free estimate, George Cook, The Working Shopfitter, 30 Buttesland Street, East Road (near Old Street Tube Station).

CHEMISTS' SHOPFITTINGS (second-hand).—Very large quantity of Wall Fittings, Show-cases, Dispensing Screens, Perfume-cases, etc., etc., to clear for cash; great bargains; oall and view, or send sizes of what you require; these goods must be sold. PHILIP JOSEPHS, 93 Old Street, Goswell Road, London, E.O.

CHEMISTS' FITTINGS (bargains).—16-ft. Drugfitting, mirror Poison Cupboards, Cornice complete, £14 10s.; Mahogany Plate-glass Wall-case, 10 ft., £13 10s.; Mahogany Plate-glass 7-ft. Dispensing-screen, bevelled mirror centre, £5; Serving Counter, 12 ft., Glass Doors, Mahogany Top, £7 10s.; Nests of strong Counter Drawers, from 27s. 6d.; Mahogany and bent Plate-glass Counter-cases, 4 ft. 75s., 5 ft. 87s. 6d., 6 ft. 97s. 6d.; all goods as new. Send for sketches to H. Mills, Chemists' up-to-date Shopfitter, Shop Front Builder, Steam Works, 163-5 Old Street, E.O.

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Experienced and successful coaching for the S.M.C. and B.O.A. Examinations by correspondence and personal tuition. Success guaranteed in a few months by our method to students willing to work hard. Reasonable terms based partly on results. Apply Secretary,

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Does high-class advertising appeal to you? If so, write at once, enclosing 1d. stamp, and I will send you on approval 12 different specimens of my new idea in advertising for Pharmacists. No obligation is incurred. All that I ask is that you treat them confidentially, and if they do not appeal to you, return them. Only one Pharmacist in a district supplied. Booklet, post free. A Ph.C. writes: "Your new scheme is the best I've seen—am more than satisfied."

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TO THE MEMBERS OF THE CHEMISTS' FRIENDLY SOCIETY.

Insurance Books and particulars of Non-State Section were posted on 20th inst. Have you received these? If not, report per postcard at once. Please note that Books and Cards must not be returned to us before expiry of 1st quarter, viz., 13th October.

THE MANAGER,
191 St. Vincent Street, Glasgow.

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to Increase Your Business by my up-to-date and improved system, which cannot fail to increase any chemist's business to which it is applied. I am the only Business Increaser who visits any client within 300 miles of office. Consult me about your winter campaign. Two window shows illustrated. Staff of expert advisers, all successful retail chemists.

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One halfpenny per word with name and address. One penny per word if we register the address and attach a number.
No advertisement inserted for less than 6d.

FOR DISPOSAL.

BOOKS AND PERIODICALS

CODEx, 1911, unopened; 10s. post free. PICKFORD, 194 Holland Park Avenue, W.

DENTAL

HARVARD dental chair, oak, upholstered leather; old pattern; good condition. BELLAMY, Barnsley.
WILKERSON pump chair, in thorough order and condition, £16; cost £35; also several new dentures for show-case, 27s. "DENTOS" (179/24), Office of this Paper.

OPTICAL AND PHOTOGRAPHIC

LANTERN saturator, Kodak developing machines, enlarger; good condition; what offers? CONNOR, Newry.
OPTICAL test case, in solid leather carrying case, practically new; cost £10 10s.; complete with double-cell adjustable trial frame; first offer of £7 secures it. NEILL, Chemist, Colwyn Bay.

MISCELLANEOUS.

PRINTING press; metal type accessories; 10s.; great bargain. Particulars, WEBSTER, 291A Normanton Road, Derby.
A PATENT short-beam analytical balance, F. Sartorius' No. 103, platinum-plated pans, knife edges and planes of agate, ruby bearings at pivots, complete in glass and mahogany case, mounted on black-marble base, equal to new, price 9 guineas; also a microscope by Salmon, in mahogany case, 3 objectives, coarse and fine adjustment, with movable stage in either direction, iris diaphragm with plane and concave mirrors attached, bull's-eye condenser on adjustable stand, price £3 10s., perfect condition. GALLIER, Pharmacist, Horsham, Sussex.

WANTED.

J.R.E. wanted. JOHN ILL, Chemist, Oxford.
CACHET machine wanted, modern style, in good condition. DUCK, Chemist, Cardiff.
TWO hanging carboys, oval; also oxygen cylinders and fittings. PLATTIN, Chemist, Nottingham.
SECOND-HAND 4-ft. counter-case, as Sangers' fig. 54. SAGE, Lostwithiel, Cornwall.
3½ in. KODAK film-tank, complete. NICHOLLS, Christow, Glassey Terrace, Falmouth.
NATIONAL cash register; good condition essential. Particulars and lowest cash price to TWIGG, Chemist, Withernsea.
WANTED, dispensing-screen, 9 or 10 ft., plate-glass shelved front; 3 7-ft. screens for sale. PRYOR, Chemist, Beckenham.
OPTICAL books; Minor, Major, Chemists' books; send prepaid for valuation; cash offers per return. GOWER, Bookseller, Waterloo, Liverpool.

THE EXCHANGE COLUMN.

TO BUYERS AND SELLERS.

We take every care to ensure that proprietary and other goods advertised in this column are genuine surplus stock of reputable persons in business, and are compelled to refuse advertisements sent by those who, when occasion requires, decline to satisfy reasonable inquiries as to their bona-fides.

We again call the attention of those who use this column for the sale or purchase of goods to the desirability of using our Deposit System. Some forward goods before they receive money for them, and others forward money to advertisers before they have even seen the goods. Disappointment in such circumstances is bound to happen now and then, and it is to prevent this, as well as to check fraud, that our Deposit System was instituted.

The buyer sends us the money for the goods, and when we hear from him that they are satisfactory, and not till then, we hand over the money to the seller. A commission of 6d. is charged by us on any transaction of 3l. or less, and 1s. if above that amount. The commission is payable by the buyer, and should be included in the money sent to us. All Cheques and Postal Orders should be made payable to "Edward Halse," and crossed "Martin's Bank, Ltd."

NEW BOOKS.

Any of these books printed in the United Kingdom can be supplied, at the published price, to "C. & D." subscribers on application (with remittance) to the Publisher, 42 Cannon Street, London E.C. These notes do not exclude subsequent reviews.

Bryan, M. Theresa. *The Nurses' Complete Medical Dictionary*. 16mo. 5¼×3½. Pp. 208. 2s. net. (Baillière.)

Cross, J. A. *Limited Liability Companies, the Law and Practice, with the Cases and Precedents*. 10×6. Pp. 640. 10s. 6d. net. (Simpkin.)

Emery, W. d'Este. *Clinical Bacteriology and Hematology for Practitioners*. 4th edit. 8vo. 8¾×5½. Pp. 284 and plates. 7s. 6d. net. (H. K. Lewis.)

Hicks, J. A. *Laboratory Book of Mineral-oil Testing*. 2nd edit. 7¼×4¾. Pp. 88. 2s. 6d. net. (C. Griffin.)

Hillier, S. *Medical and Surgical Science: Its Conception and Progress*. Cr. 8vo. Pp. 136. 1s. net. (Milner.)

Hirschberg, J. *Treatment of Short-sight*. 8vo. 5s. net. (Rebman.)

Huygens, Christiaan. *Treatise on Light*. Rendered into English by Silvanus P. Thompson. 9×7. Pp. 142. 10s. net. (Macmillan.)

Klopstock, M., and Kowarsky, A. *Manual of Clinical Chemistry, Microscopy, and Bacteriology*. 8½×5½. Pp. 392. 12s. 6d. net. (Rebman.)

Marshall, J. S. *Mouth Hygiene and Mouth Sepsis*. Cr. 8vo. 6s. net. (Lippincott.)

Morse, H. W. *Storage Batteries: The Chemistry and Physics of the Lead Accumulator*. 6s. 6d. net. (Macmillan.)

Muller, G., and Glass, A. *Diseases of the Dog and their Treatment*. 3rd edit. Ryl. 8vo. 25s. net. (Baillière.)

Mulzer, P. *Therapy of Syphilis: Its Development and Present Position*. Cr. 8vo. 6s. net. (Rebman.)

Murphy, J. K., ed. *Practitioner's Encyclopedia of Medicine and Surgery in all their Branches*. 10¼×7¾. Pp. 1444. 35s. net. (Frowde.)

Murray, J. *How to Live in Tropical Africa: A Guide to Tropical Hygiene and Sanitation*. 2nd edit. 7½×5. Pp. 332. 3s. 6d. net. (Simpkin.)

Oilmen's Sundries and How to Make Them; being a Collection of Practical Recipes. 7½×4¾. Pp. 128. 2s. 6d. net. (Scott, Greenwood.)

Ostrom, K. W. *Massage and the Original Swedish Movements: Their Application to Various Diseases of the Body*. 7th edit. 7½×4¾. Pp. 216. 3s. 6d. net. (H. K. Lewis.)

Pearson, Karl. *Tuberculosis, Heredity and Environment*. 8vo. Pp. 46. Swd. 1s. net. (Dulau.)

Philip, J. C. *Wonders of Modern Chemistry*. 8×5. Pp. 166. 2s. (Seeley.)

Pollock, C. F., and Harrison, L. W. *Gonococcal Infections: Their Application to Various Diseases of the Body*. 7th edit. 7½×4¾. Pp. 244. 5s. net. (Frowde.)

Potts, C. S. *Electricity: Its Medical and Surgical Applications*. 8vo. 18s. net. (Churchill.)

Sadtler, S. P. *Industrial Organic Chemistry*. 4th edit. 6½×9¼. 21s. net. (Lippincott.)

Schultz, F. *X-ray Treatment of Skin-diseases*. 10×6. Pp. 174. 12s. 6d. net. (Rebman.)

Shenstone, W. A. *Elements of Inorganic Chemistry: for Use in Schools and Colleges*. 6th edit. 7½×4¾. Pp. 584. 5s. (E. Arnold.)

Sinclair, J., and McAllister, G. W. *First Year's Course of Chemistry*. 7½×4¾. Pp. 174. 1s. 6d. (Bell.)

Starling, S. G. *Electricity and Magnetism for Advanced Students*. 8½×5½. Pp. 592. 7s. 6d. net. (Longmans.)

Stewart's Tourists' Guide to the Far East: A Complete Handbook with Notes on Burma and the Malay States, and Detailed Information and Description of the Voyage from Southampton to Tokio. 7½×4¾. Pp. 128. 2s. 6d. (Raphael's, Ltd., Hatton Garden, London, E.C.) [Gives notes useful to travellers of the voyage, with particulars of the towns (hotels, currency, places of interest, etc.) at which vessels usually call. Fuller details are given of the countries in the Far East, with useful matter, such as telegram rates, train and rickshaw rates. There are a number of illustrations throughout the book.]

Wilson, F. J., and Heilbron, Isidor M. *Chemical Theory and Calculations: An Elementary Text-book*. 7½×4½. Pp. 146. 2s. 6d. net. (Constable.)

Wood, H. C., jun. *Pharmacology and Therapeutics for Students and Practitioners of Medicine*. 6½×9. Pp. 429. 18s. net. (Lippincott.)

Grocers' Exhibition.

THE C. & D. commissioner is often called upon to spend an afternoon walking around some exhibition in search of novelties of interest to the readers of this journal. This week the twentieth annual exhibition of the Grocery, Provision, Oil and Italian Warehouse, and Allied Trades is being held at the Agricultural Hall, Islington, London, N., the closing day being September 28. The floor of the large hall is covered with bright exhibits, the tone of which is well up to the standard of previous years, while the entrance hall and galleries are also well filled. As at many other exhibitions there is a remarkable predominance of accessories or side-lines over staple products.

Tonic wines are greatly in evidence. STEPHEN SMITH & Co., LTD., are laying special stress on the coupon scheme in connection with Hall's wine. This firm's stand takes the form of a grocer's window. The pink wrapping of Wincarnis bottles forms a conspicuous feature of the exhibit, the stand of COLEMAN & Co., LTD., being near the entrance. "Invador" is a light Oporto port of splendid bouquet on show. It is selected for invalids by LARKIN, LTD. HUMPHREY, TAYLOR & Co., LTD., are preparing the ground for a new advertising campaign in connection with Junota, the wine of health. BEAUFY & Co. show their meat-and-malt wine, and KENWAY & Co., LTD., include ox-vino in their display. Vitalising beverages of another type are available at the tasting-stalls of BOVRIE, LTD., and LEMCO & Oxo, both of whom have stands in special positions. TURTLE CUP (1911), LTD., also prove that "turtle cup backs you up."

CONSOL AUTOMATIC AERATORS, LTD., are showing a new and more compact syphon-filler in which the incorporation of a sniffing-chamber allows more efficient and economical aeration of the water at a lower pressure of gas. P. W. TAYLOR & Co., LTD., show here for the first time their "Health Stream Carbonators" for filling both bottles and syphons. A patent draught-arm for fountain use is also worthy of inspection. FLUGEL & Co., in addition to a comprehensive display of aerated-water machinery, are exhibiting a new soda-water fountain of light and neat design. WM. GARDNER & SONS (GLOUCESTER), LTD., include several novelties in their display of grinding and mixing machinery. A new automatic feeder can be regulated so as to deliver powder at a measured rate from $\frac{1}{4}$ lb. per hour upwards. A new vertical grinder for seeds, sugar, chemicals, etc., with special composition stones, has the great advantage of ready accessibility for cleaning. Automatic weighing-machines are exhibited by SOUTHAL & SMITH, while packing and labelling machinery can be seen in operation at the stand of ROSE BROS. (GAINESBOROUGH), LTD.

There was a good entry in the honey competition, some very fine specimens being included among the hundreds of honey samples on view in the North Gallery. The South Australian Government devoted a large portion of its space to an exhibit of clear honey and Faulding's eucalyptus oil. The Commonwealth of Australia shows some curious kinds of honey, such as gum honey and blackberry honey. Beekeeping appliances are displayed in the galleries by BRICE'S APIARIES, JAMES LEE & SON, LTD., Mrs. SEADON, and E. H. TAYLOR.

THE LAMSON PARAGON SUPPLY Co., LTD., are especially expounding the time-saving advantages of their "Life-leaf Duplicate Statement System" of account keeping. BARR REGISTERS, LTD., show a simple accounting device which eliminates the necessity of keeping books. The NATIONAL CASH REGISTER Co., LTD., are emphasising their "get a receipt" methods, and also by means of flash-signs that "it pays to advertise." G. H. GLEDHILL & SONS, LTD., are calling special attention to total-adding and receipt-issuing registers.

Increasing recognition of the prime importance of the shop-window as an advertising medium has led to a good representation of firms who specialise in window-tickets, etc. These include BURCHELLS PATENTS, LTD., HOWARD & JONES, LTD., TOM MORLEY, STEVENS, HUCKETT & Co.,

LTD. HANCOCK & CORFIELD, LTD., display examples of colour-printing on metal, glass, etc. DENNIS & LUDLAM show "Bosso" seals, embossing-presses, and sign-markers. The JELLOID CHEMICAL Co. had on view, besides iron jelloids, their mystifying figure which makes the onlooker wonder "where the red drop comes from." WILLIAMS BROS. & Co. had a bright display of their harmless colours for foodstuffs, soaps, etc.

Other exhibits including items of interest to chemists are by APLIN & BARRETT (lactic St. Ivel cheese), SANDOW'S COCOA AND CHOCOLATE Co., LTD., W. T. OWBRIDGE, LTD. (Owbridge's specialities and advertising novelties), ERNEST ROBERSON (Duzkil insect-powder), DANYSZ VIRUS, LTD., L. H. SIMPSON & Co. ("Ozone" sea salts), F. CHIVERS & Co., LTD. (carpet and cloth soaps), NEW SUNBEAM BLEACH Co., LTD. (Clarke's clear fluid ammonia, softlets, and bulb food).

Many competitions, including window-dressing, show-card writing, soliciting for customers, tea-blending, etc., are being held from day to day.

POISONING FATALITIES.

Of the eight deaths from poisoning chronicled during the week two were due to misadventure.

Carbolic Acid.—Joseph Hinchliffe (50), hardware hawker, ended his life at Oldham by swallowing some carbolic disinfectant.

Cyanide-poisoning.—Mr. E. P. Wyatt inquired at Streatham into the death of Frank Wilkie Jennings, ironfounder's agent, Clapham Common, who was found poisoned on Tooting Common. Dr. J. Knox said a blue bottle containing crystals was found in possession of deceased. The Coroner: There is not much doubt as to the cause of death.—Witness: No. It is due to poison, but what the poison is I cannot say; there is no smell whatever. The Coroner: Very unusual.

—Witness: Very, indeed. The Coroner took some of the crystals from the bottle and placed them on a piece of paper, and poured water over them to see if they would dissolve, but they did not do so. Others were placed in a glass and covered with water, with the same result. This was considered to prove that the poison could not be cyanide of potassium. The doctor then took the bottle and contents to a local chemist for analysis, and upon his return some little time later stated that tests had proved the poison to be commercial hydrocyanic acid. The Coroner: What are the ingredients?—Witness: Prussic acid and caustic potash. The Coroner: And that would cause what?—Witness: Paralysis of the heart centres. The Coroner: Would that account for the corrosion you found?—Witness: Yes. The jury returned a verdict of suicide while mentally deranged.

Hydrochloric and Carbolic Acids.—Isabella Phillips Banks (25) intentionally poisoned herself at Hackney by drinking spirit of salt and carbolic acid.

Opium.—Edward McEnter (35), ship's officer, Rock Ferry, died in Birkenhead Hospital from opium-poisoning.

Oxalic Acid.—Anna Harvey, wife of a journalist, killed herself at Beddington with this poison. At the inquest the Coroner observed that the Poisons Acts were not much good nowadays, as people could obtain any amount of poison.

Spirit of Salt was the suicidal agent used by Thomas Alfred Banks (28), coal-porter, Gravesend.

Vermin-killer.—The death by misadventure of Mrs. Mary Jane Kerr at Birkenhead was due to drinking from a pint stout bottle containing vermin-killer, consisting of arsenic and caustic-soda solution. It transpired at the inquest that the mixture, which had been obtained from the Atlas Preservative Co., Deptford, was left in the house so that the landlord could complete the work of ridding the place of ants and cockroaches.

Kind not Stated.—At the inquest on Mrs. Grace Ellen Richards (36), the Manor House, Whelford, death was attributed to the injection of poison purchased through the post in tablet form from a London firm. The Coroner conducting the inquest said that it is illegal to sell such things unless the purchaser signed the poisons-book which the chemist had to keep. He added that he would communicate with the Public Prosecutor. Dr. Harold Bloxome said the tablets were used as a general disinfectant. Each tablet contained enough poison to kill four people. The jury returned a verdict that "death was due to poison taken by misunderstanding."

THE IMPORTS OF DRUGS into the East Coast of Sumatra, where there are about fifty British rubber companies operating, is estimated at about 15,000Z. annually.

FRENCH NEWS.

(From the "C. & D." Paris Correspondent)

PRICE-AGREEMENTS AMONG WHOLESALEERS.—M. Mathurin, Secretary of the Wholesale Druggists' Association, made some remarks on this subject at a recent meeting, dealing chiefly with the difficulties in the way, and he added that a first step had been taken by entering into negotiations with the Chemical Industries' Association, the General Association of Pharmacists, the Pharmaceutical Manufacturers' Association, and the Perfumery Syndicate. M. Darrasse, in his speech on retiring from the active chairmanship of the Association, referred to the same subject, and briefly sketched the progress of the body during the four years he had presided over its deliberations. In 1908 they had 146 adherents; now 234.

PHARMACY INSPECTION.—A circular signed by M. Jules Pams, Minister of Agriculture, and by Dr. E. Roux, Director of the Sanitary and Scientific Adulteration Service, has been issued with a view to preventing these vexatious prosecutions for "stocking goods not in conformity with the Codex" of which not only retail pharmacists but wholesale firms have hitherto been victims. The document is somewhat long, but the concluding paragraph deserves literal citation:

To resume, the fact of pharmacists stocking other products than those figuring in the Codex does not constitute an infraction of the Pharmacy Act, because such products may be prescribed by medical men. But the application of the (Anti-Adulteration) Law of 1905 henceforth imposes on pharmacists the following obligations:

(1) Every product merely specified by its official Codex name must be strictly in accordance with the official formula.

(2) Every medicament specified by the Codex, but prepared in a modified manner, must be labelled either with the indication of the formula or with the date of the edition of the Codex according to which it has been prepared—thus, "Paregoric Elixir (Codex 1884)," "Tincture of Henbane (Codex 1884)."

(3) The pharmaceuticals prepared according to foreign Pharmacopœias should likewise be labelled with the name of the Pharmacopœia or the formula. Examples: "Syrup of Chloral (British Pharmacopœia or 2.8 gram per gram of syrup)," "Kola Saccharolo (Belgian Pharmacopœia, or 5 per cent. caffeine)."

(4) The composition of new therapeutical products should always be as indicated on label (guaiacol carbonate, colloidal silver, etc.).

(5) Special solutions, concentrated solutions of extracts, etc., intended for current pharmaceutical use, should be prepared rigorously in conformity with the labels—"50 per cent. pepsin, solution of potassium bromide at one-third weight, opium extract one-fifth weight, calomel and sugar in equal parts," etc.

INDIA AND THE EAST.

(From the "C. & D." Correspondents.)

CHOLERA IN BOMBAY.—The recent severe cholera epidemic in Bombay is now reduced to a few spasmodic cases, the total during the week ending August 24 being nineteen only.

COCAINE SMUGGLING.—A European ship's steward of the s.s. *Habsburg* was recently arrested in Bombay for endeavouring to smuggle 640 oz. cocaine, valued at about Rs. 25,000; he was remanded in custody. The steward of the same steamer was arrested recently for smuggling cocaine and sentenced to five months' imprisonment.

THE ABOLITION OF OCTROI.—The Government of Bombay has resolved to recommend to the Government of India the introduction in the Bombay Presidency of the system of terminal taxation in lieu of octroi for a period of two years tentatively in selected municipalities. This is the result of the investigations by a committee of three revenue commissioners, who report that they find no trace in the towns of the Bombay Presidency of the abuses which are stated to be prevalent in Northern India in the system of octroi taxation, nor do they find the traders in any town complaining of the treatment under the octroi

and refund rates, and they find octroi thoroughly popular with all classes. They, however, think that a system of terminal taxation is to be preferred to octroi on its own merits, and they give the reasons why.

SALE OF POISONS IN MYSORE.—The Mysore Government have issued a Regulation governing the possession and sale of poisons within the State, which came into force on September 1. Only licensees sanctioned by the District Magistrate will be allowed to keep and retail poisonous drugs, and the cost of the licence is one rupee. The Regulation provides that the licence-holder shall sell the drugs in person; also that he shall not sell to anyone who is not known personally to him, or concerning whose identity he is unable to satisfy himself. He must be satisfied that the customer is over eighteen, in full possession of his faculties, and not a wandering mendicant; and in any case he may not sell to any single person more than 1 oz. of the drug at one time. The new legislation orders that a register shall be kept of all poisonous drugs in stock, and a detailed register also of all transactions made with customers. Careful regulations have been made as to storage, and when a sale is made, it is ordered that the drug shall be wrapped securely in a packet and labelled in red, both in English and in Canaree. The poisons named include arsenic, aconite, corrosive sublimate, stramonium (*datura*), chloroform, etc.

AUSTRALASIAN NEWS.

"The Chemist and Druggist" is regularly supplied by order to all the members of nine Societies of Chemists in Australia and New Zealand, and to many other Chemists in business there.

New South Wales.

DENTAL LEGISLATION.—The members of the dental profession met in conference on August 1 at Richmond Terrace, Sydney, to consider amending legislation. It was stated that the important change proposed is the provision of a penalty, not for the use of certain names, but for receiving any fee or reward for practising dentistry without registration. In view of the decision of the Supreme Court it was felt that this is the only safeguard to the profession and to the public. To unregistered persons who have been carrying on a practice in surgical and mechanical dentistry independently for a period of five years prior to the date of the amendment of the Act, it is proposed to give the right to apply to the Board for registration after passing a practical examination. This was considered by the Dental Board as the maximum that could be provided for those persons whose livelihood might be interfered with by the passing of the amending Bill.

Queensland.

LABELLING REGULATIONS.—The Food and Drug Regulations issued under the Health Acts, 1900 to 1911, are causing dissatisfaction among chemists on account of the interpretation that is being placed upon the labelling regulation. A list of declarable drugs is given with the following proviso:

"This regulation shall not apply to a drug dispensed and supplied on prescription or order signed by a legally qualified medical practitioner, nor to a mixture supplied by a registered pharmaceutical chemist for immediate consumption on his premises."

A deputation from the Pharmaceutical Council has since waited on the Commissioner for Public Health and pointed out the error in the "Gazette" notice, which required chemists to declare certain drugs on the label, which is in opposition to the main Act. The Commissioner said this would be rectified if found to be so. He also discussed the declaration of contents of proprietary medicines, upon which the Commissioner said he would have to obtain advice from the Crown Solicitor. The Commissioner recommended the deputation to place their views before Dr. Ashburton Thompson, the Royal Commissioner, when in Brisbane. Meanwhile he said he did not intend taking any action in these minor matters until the report of the Royal Commissioner was published.

South Australia.

POISONS REGULATIONS OPPOSED.—In the Legislative Council on August 13, and in the Legislative Assembly on August 14, a motion was made that the regulations be disallowed (see *C. & D.*, August 17, index folio 278). In both cases objection was made to the interference with trade. The Hon. J. Cowan, in the Legislative Council, spoke of the effect of free education for the last thirty years or more which had produced an intelligent community. They had in the past, without any Act, been singularly free from poisoning by accident. The number of suicides had not been greater than usual, nor would any legislation prevent their occurrence. If members would look through the regulations they would find that they would not meet the object for which they were intended—namely, the prevention of the careless handling of poisons. It would be a great hardship on most people in the country who used poisons to a large extent if the use of them was restricted. The debate was adjourned till August 20. In the Legislative Assembly, Mr. Hague, in the course of a speech which lasted an hour, said that certain restrictions should be placed on the sale of poisons, the dispensing of physicians' prescriptions, the mixing and dispensing of poisonous substances prescribed or made from formulæ for sale, and these should be entrusted to registered pharmaceutical chemists; but he said it is absurd to hamper the wholesale merchant, the manufacturer, and the retail trader with conditions that are quite unnecessary and which would increase the cost of the article. The debate was adjourned until September 4.

Western Australia.

VETERINARY ACT.—Regulations under the Act have been gazetted, and show that very strict inquiry is to be made into the claims of everyone who desires to be registered as a veterinary practitioner. Regulation 9 is as follows:

(1) Every applicant for registration as a veterinary practitioner under Sub-section 2 of Section 21 of the Act shall lodge with the Registrar a statutory declaration setting forth:

(a) That at the passing of the Act he was practising, and had continuously for not less than five years before the passing of the Act practised, veterinary surgery in Western Australia.

(b) The details of the places where, and the periods when, he so practised as aforesaid.

(c) Whether the practice of veterinary surgery was during the aforesaid periods his sole or main means of livelihood, and, if not, what were his sole or main means of livelihood during such periods?

(d) What is his present occupation, and how does he at present earn his living?

(e) His age, and that he is of good fame and character.

(2) The applicant shall also lodge such a declaration as is mentioned in paragraph 3 of Regulation 8.

A fee of two guineas is to be paid upon application; otherwise the application will not be received, and before registration a further fee of five guineas is to be paid.

A **HEALTH ACT AMENDMENT BILL** was read a second time in the Western Australian Legislative Assembly on August 1. The Hon. W. C. Angwin in moving the second reading said, among other things, that "the purpose of the Bill is to enable the Pure Foods Advisory Committee to carry into effect the desires of Parliament as expressed in the Act of 1911. While the Act gives power to the Committee to frame regulations providing that the package shall be labelled 'Coffee' and, if the coffee be mixed with chicory, shall be labelled 'Coffee and Chicory,' there is no power to force the manufacturer to disclose the proportions of the mixture. Again, in regard to the preparation of drugs, it is a matter almost of impossibility at the present time to get proper analyses made of the drugs with a view to ascertaining whether or not they contain anything deleterious to public health. Before this can be done it is necessary that the Committee should have submitted to them a formula of the contents of the drugs so that the analyst may be able to give his attention to one particular part and ascertain whether it is detrimental to

health. The Committee require power to compel the manufacturer of these drugs to supply them with the formulæ so that at any time they can have proper analyses made of these drugs with a view to protecting public health." The measure was looked upon as of so much importance that the debate was adjourned.

TRADE-MARKS.

Objections to the registration of any of the undermentioned applications must be stated on Form T.M. No. 7 (obtainable at Money Order Offices for £s) and lodged with Mr. Temple Franks, Comptroller-General, Patents Office, 25 Southampton Buildings, Chancery Lane, London, W.C., within one month of the dates mentioned.

The figures in parentheses refer to the classes in which the marks are desired.

(From the "Trade-marks Journal," September 18, 1912.)

"TERJO"; for chemicals (2). By Lever Bros., Ltd., Port Sunlight, Cheshire. 344,448.

"YALS"; for a destroyer of rats and mice (2). By A. M. Nicolson, 1 High Street, Wigtown, Scotland. 344,537.

Circular label device including words "PEARL" and "PRECIOUS, POPULAR, PERFECTION, PRICELESS" ("Pearl" disclaimed); for chemicals (2) and for medicinal chemicals (3). By T. G. Joyce, Lyttleton Works, West Bromwich. 338,399.

"LEETHO" and "TOMBSTONE"; for all goods (2). By R. Stothert & Sons, Albion Works, North Road, Atherton, near Manchester. 344,568/9.

"ANGOSTURA" and facsimile signature; for medicinal bitters (3). By Angostura Bitters (Dr. J. G. B. Siegert & Sons), Ltd., Salisbury House, London, E.C. 343,291.

"ELBON-CIBA"; for medicinal chemicals (3). By Society of Chemical Industry in Basle, Switzerland. 343,704.

"FLEMING"; for medicinal chemicals (3). By J. Ismay & Sons, City Road, Newcastle-on-Tyne. 343,854.

"KRAKALIN"; for medicinal preparations (3). By B. B. Krakowski, 61 Charlotte Street, Landport, Portsmouth. 344,633.

Facsimile of "FITZ-EPHYKURE"; for a medicine (3). By A. H. Hunter, 25 Great Charles Street, Dublin. 344,693.

"HEMONALZ"; for medicinal chemicals (3). By A. Hommel & Co., Ltd., 115 Clerkenwell Road, London, E.C. 344,800.

Device of bulldog and kennel with words "RAILOX REFELS ALL INTRUDERS"; for a nit-destroyer (3). By Milner's Chemical Co., 44 Robson Street, Liverpool. 344,753.

Device of sparkling gem and word "BRILLIANT"; for petroleum-jelly and glycerin (4). By Koninklijke Stearino Kaarsenfabriek Gouda, Gouda. 343,047.

Square label device including shield with letter "S" and words "SHIELD" Brand, etc.; for essential oils (4). By A. Saalfeld & Co., Manchester. 343,212.

"TOINOCO"; for surgical instruments and clinical thermometers (11). By J. T. Powell & Co., 3 Unity Street, Bristol. 344,445.

"ISOMAR"; for surgical corsets (11). By Isabelle Edith Morison, 26 South Molton Street, London, W. 344,509.

"LITHODA"; for mineral waters (44). By T. Dempster, 14 Mincing Lane, London, E.C. 344,269.

Label device including olives, etc., and words "TRIPP'S SOAP"; for olive-oil soap (48). By C. Thomas & Bros., Ltd., Broad Plain Soap-works, Bristol. 339,594.

"TOROPAX"; for a mouth-wash (48). By F. Thompson, Commercial Road, Portsmouth. 343,777.

"JAPADUMS"; for perfumery, etc. (48). By Warrick Bros., Ltd., 6 Nile Street, City Road, London, N. 344,216.

Word "BARONNIE" alone, and label devices including word: for perfumery, etc. (48). By Lecaron fils, Avenue de l'Opéra, Paris. 344,562/3.

"PAZOMITE"; for teeth-preparations (42). By F. W. Coombe, Arthur Street West, London, E.C. 344,705.

"D'ARTAGNAN"; for perfumery, etc. (48). By United Drug Co., Boston, Mass., U.S.A. 344,723.

"ALLACITE"; for a face-cream (48). By Dearborn, Ltd., 32 Theobalds Road, London, W.C. 344,816.

THE IMPORTS of chemical and pharmaceutical products into Mexico during the fiscal year 1910-11 amounted in value to 1,326,088l., against 1,147,250l. in 1909-10 and 985,690l. in 1908-9.

SOUTH AFRICAN NEWS.

(From "C. & D." Correspondents.)

"The Chemist and Druggist" is regularly supplied by order to all the members of the seven Societies and Associations of Chemists in British South Africa, as well as to other chemists in business there.

The Union.

PEARSON'S ANTISEPTIC CO., LTD., contractors to H.M. Government, 15 Elm Street, London, W.C., have received intimation of the acceptance of "Hycol" disinfectant for sole supply to the South African Railway during next year.

JULY IMPORTS of drugs, chemicals, and apothecaries' wares into the Union were valued at 78,944*l.*, as compared with 63,874*l.* in July 1911; the seven months' values (January to July) were 565,477*l.*, against 522,043*l.* in 1911. The value of the medicinal preparations imported in July was 9,072*l.*, against 7,955*l.*, and apothecaries' wares of all kinds were valued at 10,760*l.*, against 8,440*l.* The largest item imported was sodium cyanide—1,011,531 lb., valued at 33,425*l.*, against 823,693 lb., valued at 27,473*l.*, in 1911; potassium cyanide imports in July were 12,656 lb., against 6,384 lb.; glycerin for manufactures fell from 1,833,082 lb. in July 1911 to 1,201,433 lb. in July 1912.

Cape Province.

WEEKLY HALF-HOLIDAY.—The "Cape Times" has reported more fully than was done officially (see *C. & D.*, September 14, index folio 428) the matter of the weekly half-holiday brought before the Pharmaceutical Society's meeting on August 15. Mr. Tothill's resolution was in the following terms:

"That for the upholding of the best interests of members of the pharmaceutical profession, it is the opinion of this Society, in general meeting assembled, that steps be taken to ensure the faithful observance of a weekly half-holiday among all chemists in the Cape Peninsula during the hours from 1.30 p.m. to 6 p.m.; that a copy of this resolution be sent to every master pharmacist and chemist in business soliciting his sympathy with, and hearty support of, the resolution."

In introducing the resolution, Mr. Tothill remarked that at present certain local retail chemists do not abide by the resolution passed in 1905 as to closing one afternoon a week. He considered that it would not inconvenience the public if for a few hours the shops were closed. The resolution was carried.

Natal.

UNLICENSED DRUGGISTS.—In the Chief Magistrate's Court, Durban, Theophilus J. K. Pitt and Alexander Le Fevre, trading as the Regal Manufacturing Co., were prosecuted for an alleged contravention of Law 21 of 1899, by the unlawful preparation or compounding of certain drugs known as Regal corn-solvent, Regal syrup of figs, and Regal fruit-saline, from medicinal prescriptions or otherwise, except for private and domestic use, not being registered or licensed chemists or druggists. Evidence as to the manufacture of the fig-syrup was given by a detective, who also purchased a bottle of the corn-solvent from Mr. C. E. Forth, chemist and druggist. Mr. W. H. Goodbrand, Secretary of the Natal Pharmaceutical Society and manager of Mr. C. E. Forth's business, corroborated the sale of the corn-cure, which he purchased from the Regal Manufacturing Co. He mentioned the component parts of the syrup of figs as fig-syrup, glycerin, and senna. The boiling down of figs into a syrup would not constitute a drug, said witness, but senna and glycerin were drugs. The Borough Analyst gave evidence as to the ingredients of the corn-cure—salicylic acid, collodion, acetic acid, and cannabis indica. For the defence, the accused, T. J. K. Pitt, stated that the prescriptions of the fruit-saline and fig-syrup were his personal secret, which at first he refused to divulge. Pressed by the Bench, he admitted the ingredients were best Turkish fig-syrup, water, sugar, and senna-tee; the fruit-saline was composed of cream of tartar, tartaric acid, carbonate of soda, and sugar; the corn-solvent, of which he did not know the composition, was

made by Lennon, Ltd., and he bought it from them. In giving judgment, the Magistrate said the object of the prosecution was to raise the question as to how far people in the position of the defendants (who are not registered chemists) were entitled to use drugs or to compound them into preparations for medicinal purposes. He was satisfied as regards the syrup of figs and the corn-solvent that the law had been contravened, but with regard to the saline there was no evidence to justify his dealing with the charge. As this was a test case he thought justice would be met by imposing a nominal fine of 10*s.* each with regard to the syrup of figs and the corn-solvent.

Athletics and Sport.

A CHALLENGE CUP, presented by Mr. W. E. Lawson Johnston, a director of both the Bovril Co., Ltd., and the Apollinaris Co., Ltd., produced the principal contests in a programme given jointly by the Bovril and Apollinaris Swimming Clubs at the Holborn Baths, London, W.C., on September 21. The cup went to the club winning the majority of five events, three of them team races, one a life-saving team competition, and the other a team plunging competition. The Apollinaris team secured four out of the five events.

A FRIENDLY MATCH of golf was played on the Town Moor Course, Newcastle-on-Tyne, on September 18, between the following gentlemen connected with the drug-trade: W. Pickering (Bishop Auckland) beat F. R. Parker (Newcastle) by 6 and 4; T. Swales (Leeds) beat A. H. McBryde (Whitley Bay) by 5 and 3; R. Anderson (Sunderland) beat A. Turnbull (Newcastle) by 7 and 6; T. B. Alexander (South Shields) beat C. E. Layne (Newcastle) by 7 and 6. Mr. Thos. Swales, 24 Butt's Court, Leeds, on September 14, won the monthly medal competition on the Gulton (Leeds) Golf Links.

THE MEMBERS of the Cardiff Pharmaceutical Association played a friendly match at bowls with Penarth Bowling Club on the Penarth Hotel bowling-green on September 19. The outing proved to be thoroughly enjoyable, the day being bright. The home players gained an easy victory. The rinks were as follows: Chemists.—I, Messrs. Blackett, Taylor, Mogg, (skip) Hagon, 9 shots; II, Messrs. Huxtable, Sharmman, Harris, (skip) Sharmman, 3 shots; III, Messrs. Jones, Gerhold, Poole, (skip) Murray, 5 shots; total, 17. Penarth B.C.—I, Mr. Davies, Rev. E. T. Davies, Messrs. Walker, (skip) Rees, 44 shots; II, Messrs. Abraham, Davies, Williams, (skip) Sherwood, 29 shots; III, Messrs. Simpson, Evans, Cornwall, (skip) Dean, 29 shots; total, 102.

"The Art of Dispensing."

In Mr. Peter MacEwan's "The Art of Dispensing" there are many points of interest which cannot but hold the reader's attention for a considerable space of time. Not only are the different forms in which medicaments are prescribed taken up in detail, but the manner of writing a prescription so that the risibles of a first class chemist will not be too greatly touched is gone into for the benefit of all those well-meaning physicians who somehow overlook incompatibles and—saddest of all factors in the make-up of prescriptions—legibility. Caligraphy, for reasons which have never been satisfactorily explained by critics of the strange doings of medical men, has been deemed, it would appear, of such secondary importance that to mention it in connection with the routine work of the general practitioner could not help but be the means of introducing a subject of depreciating superfluity. But, after reading the chapters "Foreign Prescriptions" and "Autograph Prescriptions" in the book under consideration, we are made aware in no dubitable way that the matter of legible penmanship in the writing of prescriptions, while it may stamp the penman as conventionally normal, would prevent many a pharmacist from writhing in mental anguish on account of vain endeavours to decipher what apparently is Chaldaic but in reality bastard Latin adorned with a's that look like x's, o's that look like v's, and many other letters that bear no resemblance to what civilised man is supposed to put on paper. But, despite the many excellences of the chapters just mentioned and the many home thrusts dealt by the writer, we fear that, as regards manner of penmanship, the eccentricity of the majority of prescribing physicians will be just as rampant in the future as in the past, for custom has certainly been lenient to them in respect of this unenviable privilege.—*Interstate Medical Journal.*

PATENT SPECIFICATIONS.

Printed copies of the following specifications are on sale (8d. each) at the Patent Office, 25 Southampton Buildings, London, W.C., a fortnight after the notice of acceptance has appeared in the "Official Journal" (Patents) of the given dates. Persons desirous of opposing the grant of a patent must do so in the prescribed form within two months from the date of the "Journal" in which the notice appeared.

Specifications Accepted.

September 4, 1912.

EVAPORATION, DISTILLATION, AND SIMILAR OPERATIONS. 12462/11. Söderland and Testrup.
PROCESS FOR PRODUCING LIGHT HYDROCARBONS. 16931/11. Burke.
WATER-PURIFICATION PLANTS. 17215/11. York.
APPARATUS FOR PROPORTIONING AND MIXING OF CHEMICAL SOLUTIONS FOR PURIFYING LIQUIDS. 19540/11. Pemberton.
PREPARATION OF RESIN-SOLUTIONS FOR USE IN PAPER-MAKING. 20189/11. Sommer.
SOAP. 24304/11. Anyon.
SILICA-GLASS ARTICLES. 24482/11. Kent, Laeell and Silica Syndicate, Ltd.
MANUFACTURE OF AMMONIA. 25252/11. Johnson. (Badische Anilin- und Soda-Fabrik.)
PRODUCTION OF THE ALKALI METALS. 26025/11. Mehner.
EXTRACTING ESSENTIAL OILS FROM CITRUS FRUITS. 28402/11. Alport and Davenport.
SHOWCASES ESPECIALLY SUITABLE FOR THE DISPLAY OF SURGICAL INSTRUMENTS. 28692/11. Arnold.
STANNIC OXIDE. 29114/11. Hubers. (Th. Goldschmidt.)
MANUFACTURE OF BETA-GAMMA-DIMETHYLERETHRENE. 1557/12. Newton. (Farbenfabriken vorm. F. Bayer & Co.)
MANUFACTURE FROM METALLIC LEAD OF LEAD COMPOUNDS. 3728/12. Jansen.
DERIVATIVES OF 4: 4¹ DIOXY 3: 3¹ DIAMINO-ARSENOCBENZENE. 5797/12. Farbwerke vorm. Meister, Lucius & Brünig.
NITROSO DERIVATIVES OF PHENYL-GLYCINE-ORTHO-CARBOXYLIC OR ETHYLENE-DIANTHRANILIC ACID OR THE ESTERS OF THESE ACIDS. 14341/12. J. D. Riedel Akt.-Ges.
SPRAY-PRODUCERS. 16399/12. Hall & Kay, Ltd.

September 11, 1912.

STERILISING WATER BY OZONE. 19838/11. Marks. (Siemens & Halske Akt.-Ges.)
TURPENTINE SUBSTITUTE. 19927/11. Earles, Robertson, Mote & Cartwright.
ELECTRICALLY TREATING PLANTS. 19962/11. Müller and Veifa-Werke Vereinigte Electrotechnische Institute, Frankfurt, Aschaffenburg.
RECOVERING CORROSIVE ACIDS FROM ABSORBENTS. 19965/11. Hale.
SCIENTIFIC CLEANSING PREPARATION FOR WOOL-SCOURING. 24675/11. Shaw.
MANUFACTURE OF AROMATIC FRACTIONATED MINERAL OILS. 27348/11. Grossmann and Terpol Akt.-Ges.
MANUFACTURE OF WATERPROOF SHEETING AND TUBING. 694/12. Dew and Azulay Syndicate, Ltd.
MATERIAL FOR DESTROYING THE SWELLING DISEASE OF CABBAGES, ETC. 3613/12. Steiner.
EXTRACTING VANADIUM. 6119/12. Saklatwalla.
MANUFACTURE OF WHITE LEAD. 9638/12. White & Paterson.
MANUFACTURE OF BETAINE HYDROCHLORIDE FROM VINASSE. 11354/12. Stoltzenberg.
RESINOUS COMPOUND. 13433/12. Ball.
VAGINAL OINTMENT FOR CATTLE. 13436/12. Hartung.
BARBITURIC-ACID DERIVATIVE. 15452/12. Farbenfabriken vorm. F. Bayer & Co., and Hoerlein.
GENERATING OXYGEN. 17225/12. Arnold, Arnold & Percival.

September 18, 1912.

FLOOR AND OTHER POLISHES. 20218/11. Miller.
ARTIFICIAL TEETH. 22516/11. Patterson.
COMBINED DUSTING AND POLISHING CLOTH AND COMPOSITION. 27960/11. Roffey. (Schoene.)
FLESH-BRUSHES. 185/12. Tubbs, Tubbs & Hopson.
FEEDING-BOTTLES. 1164/12. Thomas.
CONCENTRATING SULPHURIC ACID. 2389/12. Mackenzie.
MANUFACTURE OF GLYCEROPHOSPHORIC ACID AND ITS SALTS. 2882/12. Southall Bros. & Barclay, Ltd., and Roy.
PRODUCING VAPOURS FOR INHALATION. 4914/12. Elsaesser.
REMEDY FOR PILES. 6526/12. Waldron.
BIFOCAL LENSES. 9402/12. Royston. (United Bifocal Co.)
CHILD'S FEEDING-BOTTLE. 11189/12. Ritter.

September 25, 1912.

MANUFACTURE OF ISOPRENE. 18356/11. Johnson. (Badische Anilin- und Soda-Fabrik.)
SANITARY BELT. 24278/11. Burnet & Temple.
ARTIFICIAL TEETH. 4324/12. Collingbourne.

Open for Public Inspection.

MAINTAINING THE VITALITY OF THE ACTIVE ORGANS IN DRIED YEAST. 16901/12. Ohlhaber.
STERILISING APPARATUS FOR WATER. 18207/12. Jansen.
PRODUCING SOLID DISINFECTANTS. 19368/12. Chemische Fabrik "Vahrenwald."
MANUFACTURE OF SPONGY INDIARUBBER. 12245/12. Pfeuemer.
COMPOSITION FOR KEEPING OFF ANIMAL AND INSECT PESTS. 15421/12. Zimmermann.
OBTAINING OXYGEN AND NITROGEN FROM LIQUEFIED AIR. 17431/12. Industriegas Ges. für Sauerstoff und Stickstoff, Anlagen.
STERILISING SURGICAL INSTRUMENTS. 19478/12. Michelson.
CARRYING OUT ENDOTHERMIC PROCESSES. 19911/12. Von Staszewski.
PRODUCING AMMONIA FROM SULPHOCYANIDE COMPOUNDS. 15742/12. Burkheiser.

COMING EVENTS.

This section of the "C. & D." is reserved for advance notices of meetings or other events. These should be sent to the Editor by Wednesday of the week before the meetings, etc., occur.

Monday, September 30.

London Medical Exhibition, Royal Horticultural Hall, Vincent Square, Westminster, S.W. Opens at 12 noon, and remains open till Friday, 7 p.m.

Tuesday, October 1.

Pharmaceutical Society of Ireland, 67 Lower Mount Street, Dublin. Re-opening of Patany and Materia-medica Schools.

Wednesday, October 2.

Pharmaceutical Society of Great Britain, 17 Bloomsbury Square, London, W.C., at 11 a.m., Council-meeting. At 3 p.m., opening of session of School of Pharmacy, with inaugural address by Mr. J. Rymer Young.

Pharmaceutical Society of Ireland, 67 Lower Mount Street, Dublin, at 3 p.m. Council-meeting.

Thursday, October 3.

St. Vincent Association, Anderson's Hotel, Fleet Street, London, E.C., at 7.30 p.m. Annual dinner. Tickets (5s. each) from Mr. J. R. Bailey, Hon. Secretary, 13 Devonshire Street, E.C.

Great Yarmouth Pharmaceutical Association, 156 King Street, at 8 p.m. Monthly meeting.

Shropshire Pharmacists. A meeting will be held at the Music Hall, Shrewsbury, at 6 p.m., for the purpose of forming a Chemists' Association for the county.

Friday, October 4.

School of Pharmacy Past-Students' Association. New students of the Pharmaceutical Society's School of Pharmacy will be entertained by the members of the Past-Students' Association at a concert to be held in the Council Chamber, Holborn Restaurant, at 8 p.m. The President of the Pharmaceutical Society (Mr. C. B. Allen) will preside. Tickets (1s. each) can be obtained from Mr. Harry Martin, Hon. Secretary, 2 Chisholm Road, East Croydon.

GLASGOW AND WEST OF SCOTLAND CHEMISTS' ASSOCIATION.—A whist-drive and dance has been arranged for October 15. Tickets can be had from Mr. G. S. Kitchen, Hon. Secretary.

THE ANNUAL MEETING OF THE PHARMACEUTICAL SOCIETY OF IRELAND will be held at 67 Lower Mount Street, Dublin, on October 7. The gold medal of the Society will be awarded to Mr. Joel Green, M.P.S.I.

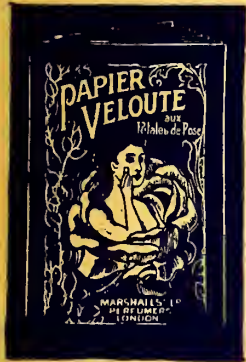
WESTERN PHARMACISTS' ASSOCIATION.—A whist-drive will be held in the York Room, Frascati's, Oxford Street, London, W., on October 9. Tickets (3s. 6d., including supper) from Mr. A. Latreille, Hon. Secretary, 48 Baker Street, W.

MANCHESTER PHARMACEUTICAL ASSOCIATION.—A dinner and concert will be held in the Grand Hotel, Aytoun Street, on October 9. Tickets (4s. each) from members of Council, or Messrs. Woolley, Sons & Co., and Messrs. Oldfield, Patinson & Co.

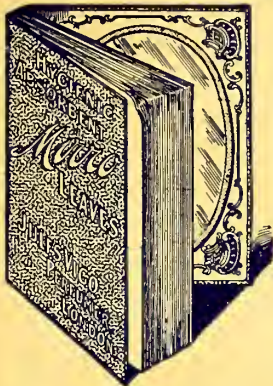
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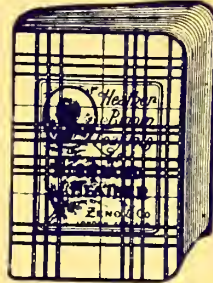
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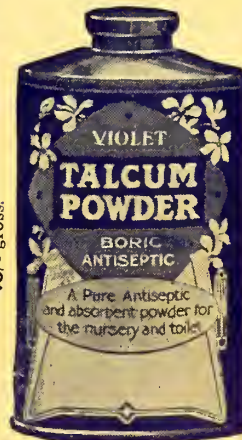
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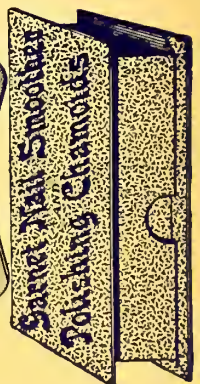
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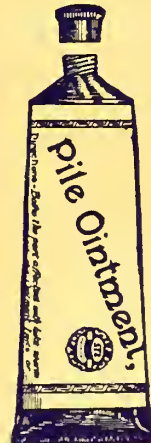


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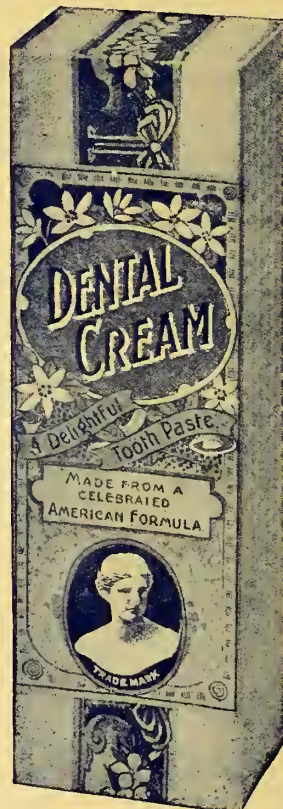
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